



# New Products

## JANUARY 2025

We are continually expanding our portfolio to meet your research needs. *Check out* the new products released this month!

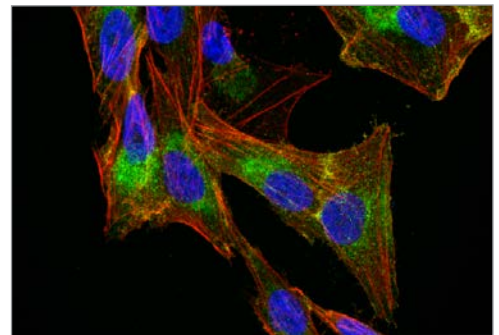
## HOT PRODUCTS

### ACSL4 (F6T3Z) Rabbit mAb #38493

#### ACSL4, a fatty acid metabolism factor that regulates ferroptosis

Long-chain acyl-coenzyme A (CoA) synthase 4 (ACSL4) is an enzyme that esterifies CoA into specific polyunsaturated fatty acids. The ACSL4-catalyzed biosynthesis of arachidonoyl-CoA contributes to the execution of ferroptosis by triggering phospholipid peroxidation. ACSL4 expression is upregulated in ferroptosis-sensitive cancer cells compared with ferroptosis-resistant cells. Furthermore, ACSL4 has been suggested to be involved in diabetic complications and cardiovascular disease, and is attracting attention as a potential therapeutic target in various diseases. #38493 is suitable for analysis of intracellular localization by IF using human, mouse, and rat cells.

**KEYWORDS:** Cancer, Ferroptosis, Fatty acid metabolism



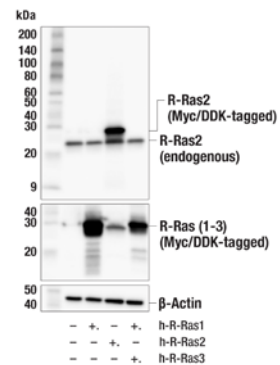
**IF-IC:** Confocal IF analysis of Caki-1 cells using #38493 (green), DyLight 554 Phalloidin #13054 (red), and DAPI #4083 (blue).

### R-Ras2 (F6T8H) Rabbit mAb #57299

#### Small GTPase R-Ras2 is involved in various diseases

R-Ras2 (TC21) belongs to the R-Ras subfamily of small GTPases, which includes R-Ras1 and R-Ras3 (M-Ras). R-Ras2 facilitates association with membranes and potent activation of the ERK/MAPK and PI3K signaling cascades. A role for R-Ras2 in the homeostasis of the adaptive immune system by demonstrating that loss of R-Ras2 expression impairs the proliferation and survival of lymphocytes in both the T cell and B cell compartments. R-Ras2 also regulates platelet activation and aggregation as well as thrombus formation and stability. R-Ras2-deficient platelets form unstable thrombi in response to endothelial injury, leading to increased severity of stroke and atherosclerosis. Higher than normal expression of R-Ras2 not bearing activating mutations is a key driver in the majority of breast cancers, especially those of the triple-negative type.

**KEYWORDS:** Noonan syndrome, Cancer, Signal transduction



**WB:** Western Blot analysis of extracts from 293T cells, mock transfected (-) or transfected with constructs expressing Myc/DDK-tagged full-length human R-Ras1 protein (hR-Ras1-Myc/DDK; +), Myc/DDK-tagged full-length human R-Ras2 protein (hR-Ras2-Myc/DDK; +), and Myc/DDK-tagged full-length human R-Ras3 protein (hR-Ras3-Myc/DDK; +), using #57299 (upper), Myc-Tag (71D10) Rabbit mAb #2278 (middle), or β-Actin (D6A8) Rabbit mAb #8457 (lower).



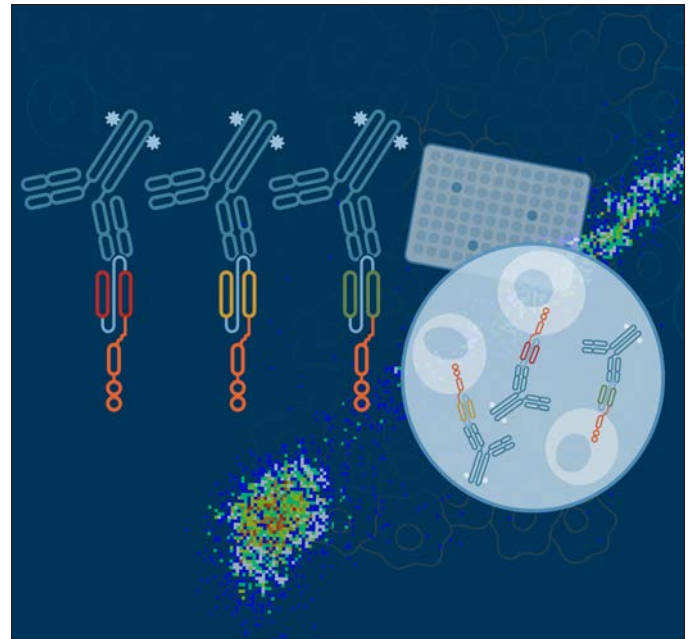
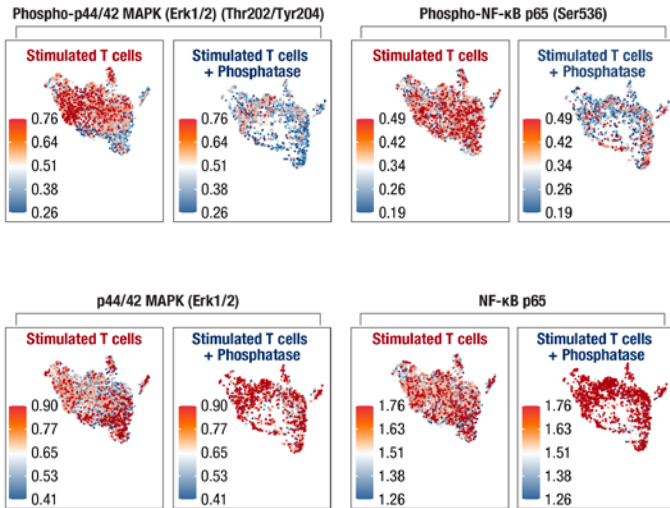
| PRODUCT  | APPLICATIONS     | REACTIVITY                      |
|--|------------------|---------------------------------|
| <b>Adhesion/ECM</b>  |                  |                                 |
| <b>16740S</b> Claudin-6 Matched Antibody Pair  | ELISA            | H                               |
| <b>76735S</b> COL3A1 (E8D7R) XP <sup>®</sup> Rabbit mAb (Alexa Fluor <sup>®</sup> 555 Conjugate) | IHC-P            | H                               |
| <b>75612S</b> Total EpCAM Matched Antibody Pair  | ELISA            | H                               |
| <b>53550S</b> Integrin $\beta$ 1 (12G10) Mouse mAb   | IF-IC            | H                               |
| <b>53550T</b>  |                  |                                 |
| <b>75723SF</b> PSA/KLK3 (D2A8) Rabbit mAb (BSA and Azide Free)                                   | WB, ELISA, IF-IC | H                               |
| <b>76325S</b> Total PSA/KLK3 Matched Antibody Pair   | ELISA            | H                               |
| <b>98586S</b> Versican (F4U1K) Rabbit mAb  | WB               | H                               |
| <b>98586T</b>  |                  |                                 |
| <b>82821S</b> Vitronectin (F7A8D) Rabbit mAb   | WB               | H                               |
| <b>82821T</b>  |                  |                                 |
| <b>53507S</b> Vitronectin (F8D3L) Rabbit mAb   | IHC-P            | H                               |
| <b>53507T</b>  |                  |                                 |
| <b>44073SF</b> YKL-40 (E2L1M) Rabbit mAb (BSA and Azide Free)                                    | WB, IHC-P, IF-IC | H                               |
| <b>Akt Signaling Pathways</b>  |                  |                                 |
| <b>15785SF</b> FoxO1 (D8T1S) Mouse mAb (BSA and Azide Free)                                      | WB, IHC-P, ELISA | H, M, R, Mk                     |
| <b>Apoptosis</b>   |                  |                                 |
| <b>31924SF</b> Bad (11E3) Rabbit mAb (BSA and Azide Free)  | WB, ELISA        | H, M, R, Mk                     |
| <b>10497SF</b> Phospho-Bad (Ser136) (D25H8) Rabbit mAb (BSA and Azide Free)                      | WB, ELISA        | H, M, R, Mk, (R)                |
| <b>24152SF</b> Phospho-Bcl-2 (Ser70) (5H2) Rabbit mAb (BSA and Azide Free)                       | WB, ELISA, FC-FP | H                               |
| <b>70365S</b> Phospho-c-Myc (Thr244) (F3G5K) Rabbit mAb  | WB, IP           | H, M, R                         |
| <b>70365T</b>  |                  |                                 |
| <b>42382SF</b> Phospho-MLKL (Ser358) (E7G7P) Rabbit mAb (BSA and Azide Free)                     | WB, ELISA        | H                               |
| <b>39027S</b> SERPINB3 (F2I8O) Rabbit mAb  | WB, FC-FP        | H                               |
| <b>39027T</b>  |                  |                                 |
| <b>26614S</b> SERPINB3 (F3Z8E) Rabbit mAb  | WB, IHC-P        | H                               |
| <b>26614T</b>  |                  |                                 |
| <b>Autophagy</b>   |                  |                                 |
| <b>44761SF</b> Atg14 (D6T9J) Rabbit mAb (BSA and Azide Free)                                     | WB, ELISA        | H                               |
| <b>89678S</b> Phospho-FAM134B (Ser151) (F8R4D) Rabbit mAb  | WB, IP           | H                               |
| <b>89678T</b>  |                  |                                 |
| <b>Cell Cycle / Checkpoint Control</b>   |                  |                                 |
| <b>99601SF</b> cdc2 (POH1) Mouse mAb (BSA and Azide Free)  | WB, ELISA, IF-IC | H, Mk                           |
| <b>64991SF</b> Cyclin D1 (DCS6) Mouse mAb (BSA and Azide Free)                                   | ELISA            | H, M, R, Mk                     |
| <b>19013S</b> p16 INK4A Matched Antibody Pair  | ELISA            | H                               |
| <b>29535SF</b> Phospho-Rb (Ser780) (C84F6) Rabbit mAb (BSA and Azide Free)                       | WB, ELISA        | H, M, R, Mk, (Pg)               |
| <b>Chromatin Regulation / Nuclear Function</b>   |                  |                                 |
| <b>69900S</b> Histone H2A.B (F2J5F) Rabbit mAb   | WB               | H                               |
| <b>69900T</b>  |                  |                                 |
| <b>59770S</b> Phospho-Histone H3 (Ser10) Matched Antibody Pair                                   | ELISA            | H, M, R, Mk                     |
| <b>86664S</b> Acetyl-Histone H3 (Lys23) (F1Y4B) Rabbit mAb                                       | WB, IF-IC        | H, M, R, Mk                     |
| <b>86664T</b>  |                  |                                 |
| <b>68406SF</b> Mono-Methyl-Histone H3 (Lys9) (D1P5R) Rabbit mAb (BSA and Azide Free)             | WB, ELISA, IF-IC | H, M, R, Mk, (X, Z, Pg, Sc, Hr) |
| <b>73828S</b> INO80 (F2I3E) Rabbit mAb   | WB               | H, M, R, Mk                     |
| <b>73828T</b>  |                  |                                 |

| PRODUCT  | APPLICATIONS                   | REACTIVITY                   |
|--|--------------------------------|------------------------------|
| <b>Chromatin Regulation / Nuclear Function</b> (cont.)                               |                                |                              |
| <b>24202S</b> PATZ1 (F2N4R) Rabbit mAb   | WB, IP, ChIP                   | H, M, Mk                     |
| <b>24202T</b>  |                                |                              |
| <b>Cytoskeletal Signaling</b>  |                                |                              |
| <b>73266SF</b> DRP1 (D6C7) Rabbit mAb (BSA and Azide Free)                           | WB, ELISA, IF-IC               | H, M, R, Mk, (Pg)            |
| <b>27983S</b> Keratin 17/19 (D4G2) XP® Rabbit mAb (Alexa Fluor® 555 Conjugate)       | IHC-P                          | H, M, R                      |
| <b>19623S</b> Phospho-Vimentin (Ser56) Matched Antibody Pair                         | ELISA                          | H, M, R                      |
| <b>Developmental Biology</b>   |                                |                              |
| <b>55138C</b> PathScan® RP NDRG1 Sandwich ELISA Kit                                  | ELISA                          | H, Mk                        |
| <b>62173S</b> SIX3 (F1IIS) Rabbit mAb  | WB, IP, IHC-P, IF-F            | H, M, R                      |
| <b>62173T</b>  |                                |                              |
| <b>44223SF</b> SMAD3 (C67H9) Rabbit mAb (BSA and Azide Free)                         | WB, ELISA, IF-IC, FC-FP        | H, M, R, Mk, Mi, (X, Z, B)   |
| <b>45319S</b> Total SMAD4 Matched Antibody Pair                                      | ELISA                          | H, M, R, Mk                  |
| <b>49728S</b> TGF-β Receptor I (F6L3I) Rabbit mAb                                    | WB, IP                         | H, M, R                      |
| <b>49728T</b>  |                                |                              |
| <b>42444S</b> Phospho-TWIST1 (Ser68) (E8I6K) Rabbit mAb                              | WB, IP                         | H, (M, R)                    |
| <b>42444T</b>  |                                |                              |
| <b>50413SF</b> Phospho-YAP (Ser397) (D1E7Y) Rabbit mAb (BSA and Azide Free)          | WB, ELISA                      | H, M, R                      |
| <b>Immunology and Inflammation</b>   |                                |                              |
| <b>74139S</b> BANK1 (F4G1Q) Rabbit mAb   | WB, IP                         | H                            |
| <b>74139T</b>  |                                |                              |
| <b>97849S</b> DDX15 (F4H6R) Rabbit mAb   | WB, IP                         | H, M, R                      |
| <b>97849T</b>  |                                |                              |
| <b>94512SF</b> HS1 (D83A8) XP® Rabbit mAb (BSA and Azide Free)                       | WB, IHC-P, ELISA, IF-IC, FC-FP | H                            |
| <b>83636T</b> Human Reactive Inflammatory Cytokine Antibody Sampler Kit              | -                              | -                            |
| <b>90155SF</b> IκBa (L27H1I) Mouse mAb (BSA and Azide Free)                          | ELISA                          | H, M                         |
| <b>37650SF</b> Phospho-IκBa (Ser32/36) (5A5) Mouse mAb (BSA and Azide Free)          | WB, ELISA                      | H, M, R, Mk, (B, Dg, Pg, GP) |
| <b>84593SF</b> Phospho-LAT (Tyr220) (E3S5L) Rabbit mAb (BSA and Azide Free)          | WB, ELISA                      | H, M                         |
| <b>87678S</b> MB21D2 (F6Z9B) Rabbit mAb  | WB, IP                         | H                            |
| <b>87678T</b>  |                                |                              |
| <b>50625S</b> PD-L1 (F4G6U) Rabbit mAb (Alexa Fluor® 647 Conjugate)                  | FC-FP, FC-L                    | M                            |
| <b>16561C</b> PathScan® RP PIP4K2C Sandwich ELISA Kit                                | ELISA                          | H, M, R                      |
| <b>59629S</b> PIGR (F9A8F) Rabbit mAb  | FC-FP, FC-L                    | H                            |
| <b>59629T</b>  |                                |                              |
| <b>37540S</b> PIGR (F9Y6D) Rabbit mAb  | WB, IP, FC-FP                  | H                            |
| <b>37540T</b>  |                                |                              |
| <b>37592S</b> PR3 (F5M5D) Rabbit mAb   | WB, FC-FP                      | H                            |
| <b>37592T</b>  |                                |                              |
| <b>27910SF</b> Stat5a (4H1) Mouse mAb (BSA and Azide Free)                           | WB, ELISA                      | H                            |
| <b>93674S</b> Phospho-Stat6 (Tyr641) Matched Antibody Pair                           | ELISA                          | H                            |
| <b>35503SF</b> TNF-α (Adalimumab Biosimilar) Human mAb                               | N                              | H                            |
| <b>91462S</b> TRIM21 (F2E4V) Rabbit mAb  | WB, IP                         | M                            |
| <b>91462T</b>  |                                |                              |
| <b>28260S</b> Total Zap-70 Matched Antibody Pair                                     | ELISA                          | H, M                         |
| <b>Infectious Diseases</b>   |                                |                              |
| <b>30718S</b> Respiratory Syncytial Virus (RSV) Nucleoprotein (N) (F5S9J) Rabbit mAb | WB, IHC-P                      | Vir                          |
| <b>30718T</b>  |                                |                              |

| PRODUCT   | APPLICATIONS     | REACTIVITY    |
|---|------------------|---------------|
| <b>MAP Kinase Signaling</b>   |                  |               |
| <b>17470S</b> FRA1 (F2H9R) Rabbit mAb                                       | WB, IP, ChIP     | H, M          |
| <b>17470T</b>   |                  |               |
| <b>56345SF</b> Phospho-c-Jun (Ser63) (88E3) Rabbit mAb (BSA and Azide Free) | ELISA            | H, M, R       |
| <b>57299S</b> R-Ras2 (F6T8H) Rabbit mAb                                     | WB, IP           | H, M, R, (Pg) |
| <b>57299T</b>   |                  |               |
| <b>31259SF</b> SHP-2 (D50F2) Rabbit mAb (BSA and Azide Free)                | WB, IHC-P        | H, M, R, Mk   |
| <b>37288SF</b> Src (L4A1) Mouse mAb (BSA and Azide Free)                    | WB, ELISA        | H, M, R, Mk   |
| <b>Metabolism</b>   |                  |               |
| <b>38493S</b> ACSL4 (F6T3Z) Rabbit mAb                                      | WB, IP, IF-IC    | H, M, R       |
| <b>38493T</b>   |                  |               |
| <b>35602S</b> FHL2 (E5E3D) Rabbit mAb                                       | WB               | H             |
| <b>35602T</b>   |                  |               |
| <b>34265S</b> Folate Receptor Alpha/FOLR1 (E8U2F) Mouse mAb                 | WB, IHC-P        | H, M          |
| <b>34265T</b>   |                  |               |
| <b>43365S</b> GCDH (F2P2M) Rabbit mAb                                       | WB, IHC-P, IF-IC | H             |
| <b>43365T</b>   |                  |               |
| <b>36788S</b> GCH1 (F8T4M) Rabbit mAb                                       | WB, IF-IC        | H             |
| <b>36788T</b>   |                  |               |
| <b>76335S</b> GRIM19 (F6I7Y) Rabbit mAb                                     | WB               | H             |
| <b>76335T</b>   |                  |               |
| <b>15230S</b> HSD3B1 (F7Q2L) Rabbit mAb                                     | WB               | H             |
| <b>15230T</b>   |                  |               |
| <b>23282S</b> HSD17B13 (F8I1E) Rabbit mAb                                   | WB, IP, IHC-P    | H             |
| <b>23282T</b>   |                  |               |
| <b>15860SF</b> Phospho-IRS-1 (Ser612) (L7B8) Mouse mAb (BSA and Azide Free) | WB, ELISA        | H, M, R       |
| <b>18992S</b> Mast Cell Chymase/CMA1 (F6S4Q) Rabbit mAb                     | IHC-P            | H, (Dg)       |
| <b>18992T</b>   |                  |               |
| <b>76607S</b> MT-ATP6 (F9Y8D) Rabbit mAb                                    | WB, IP           | H, Mk         |
| <b>76607T</b>   |                  | H, Mk         |
| <b>29786S</b> NRK1 (F4F8L) Rabbit mAb                                       | WB, IP           | H             |
| <b>29786T</b>   |                  |               |
| <b>88224S</b> Phospho-PANK2 (Ser169) (F7O5Q) Rabbit mAb                     | WB               | H             |
| <b>88224T</b>   |                  |               |
| <b>52520S</b> Prostein/SLC45A3 (F5U4V) Rabbit mAb                           | WB, IP           | H             |
| <b>52520T</b>   |                  |               |
| <b>26080S</b> SHMT1 (F2H4H) Rabbit mAb                                      | WB, FC-FP        | H, M, R       |
| <b>26080T</b>   |                  |               |
| <b>38274S</b> Phospho-TFE3 (Ser321) (F1E8R) Rabbit mAb                      | WB, IP           | H, M, R       |
| <b>38274T</b>   |                  |               |
| <b>58193S</b> TYRP1 (F1Z7M) Rabbit mAb                                      | WB, IHC-P        | H             |
| <b>58193T</b>   |                  |               |
| <b>Motif Antibodies</b>   |                  |               |
| <b>39937SF</b> Acetylated-Lysine (A3D6C) Rabbit mAb (BSA and Azide Free)    | WB, ELISA        | All           |
| <b>Neuroscience</b>   |                  |               |
| <b>59870SF</b> APP (Aducanumab Biosimilar) Human mAb                        | N                | H             |
| <b>94097C</b> PathScan® RP BDNF Sandwich ELISA Kit                          | ELISA            | H, M          |

| PRODUCT   | APPLICATIONS                  | REACTIVITY          |
|---|-------------------------------|---------------------|
| <b>Neuroscience (cont.)</b>   |                               |                     |
| <b>87006S</b> GFAP (F1R2V) Rabbit mAb   | WB, IP, IF-F, IF-IC           | H, M, R             |
| <b>87006T</b>   |                               |                     |
| <b>26880SF</b> LRRK2 (D18E12) Rabbit mAb (BSA and Azide Free)   | WB, ELISA                     | H, M, R             |
| <b>43222S</b> Mena (F5Z9K) Rabbit mAb   | WB, IHC-P                     | H, M, R, Mk         |
| <b>43222T</b>   |                               |                     |
| <b>82049S</b> Phospho-NMDA Receptor 2A (GluN2A) (Tyr1246) (E4U3T) Rabbit mAb  | WB                            | M, R                |
| <b>82049T</b>   |                               |                     |
| <b>62649S</b> Piezo1 (FIT5B) Rabbit mAb   | WB                            | H, R                |
| <b>62649T</b>   |                               |                     |
| <b>67603SF</b> Phospho-Tau (Thr231) (E7O3C) Rabbit mAb (BSA and Azide Free)   | ELISA                         | H, M, R             |
| <b>PI3K / Akt Signaling</b>   |                               |                     |
| <b>55112SF</b> Phospho-eNOS (Ser1177) (C9C3) Rabbit mAb (BSA and Azide Free)  | WB, ELISA                     | H, B, Pg, (X, R)    |
| <b>55250SF</b> Phospho-mTOR (Ser2481) (A3S4O) Rabbit mAb (BSA and Azide Free)   | ELISA                         | H, M                |
| <b>67854SF</b> YB1 (D2A11) Rabbit mAb (BSA and Azide Free)  | WB, ELISA                     | H, M, R, Mk, (X, B) |
| <b>RTK</b>  |                               |                     |
| <b>28451SF</b> Phospho-Axl (Tyr702) (D12B2) Rabbit mAb (BSA and Azide Free)   | WB, ELISA                     | H, (M, R)           |
| <b>88906SF</b> FGF Receptor 2 (D4H9) Rabbit mAb (BSA and Azide Free)  | WB, ELISA                     | H, M                |
| <b>41014SF</b> FGFR2 (D9H12) Rabbit mAb (BSA and Azide Free)  | ELISA                         | H                   |
| <b>41239SF</b> HER3/ErbB3 (E4D6O) Mouse mAb (BSA and Azide Free)  | ELISA                         | H                   |
| <b>46661SF</b> Phospho-HER3/ErbB3 (Tyr1289) (D1B5) Rabbit mAb (BSA and Azide Free)  | WB, IHC-P, ELISA              | H, M, (R)           |
| <b>85880S</b> Phospho-HER3/ErbB3 (panTyr) Matched Antibody Pair   | ELISA                         | H                   |
| <b>68236SF</b> Phospho-PDGFR Receptor $\alpha$ (Tyr849)/PDGFR Receptor $\beta$ (Tyr857) (C43E9) Rabbit mAb (BSA and Azide Free) | WB, ELISA                     | H, M, R             |
| <b>78354SF</b> Tyro3 (L5G5) Mouse mAb (BSA and Azide Free)  | ELISA                         | H                   |
| <b>79800SF</b> Phospho-VEGF Receptor 2 (Tyr1175) (19A10) Rabbit mAb (BSA and Azide Free)  | WB, ELISA                     | H, M                |
| <b>Translational Control</b>  |                               |                     |
| <b>52960S</b> eIF4A3 (F9X7Z) Rabbit mAb   | WB, IP                        | H, M, R, Mk         |
| <b>52960T</b>   |                               |                     |
| <b>86732SF</b> Phospho-TFEB (Ser122) (E9M5M) Rabbit mAb (BSA and Azide Free)  | WB, ELISA                     | H, M, R             |
| <b>Ubiquitin and Ubiquitin-like proteins</b>  |                               |                     |
| <b>95258SF</b> CRBN (F417F) Rabbit mAb (BSA and Azide Free)   | WB, IHC-P, ELISA, IF-F, IF-IC | H, M, R             |
| <b>77593S</b> KK-LC-1 (F3U6C) Rabbit mAb  | WB, IHC-P                     | H                   |
| <b>77593T</b>   |                               |                     |
| <b>66000S</b> SENP6 (F2K4K) Rabbit mAb  | WB, IP                        | H                   |
| <b>66000T</b>   |                               |                     |
| <b>82297S</b> TCEB2/Elongin B (F1K9D) Rabbit mAb  | WB, IP                        | H, M, R, Mk         |
| <b>82297T</b>   |                               |                     |
| <b>41892S</b> TCEB2/Elongin B (F3G5G) Rabbit mAb  | WB                            | H, M, R, Mk         |
| <b>41892T</b>   |                               |                     |
| <b>88056S</b> Phospho-Ubiquitin (Ser57) (F114R) Rabbit mAb  | WB                            | H                   |
| <b>88056T</b>   |                               |                     |
| <b>Related Products</b>   |                               |                     |
| <b>95857S</b> Human IFN- $\beta$ Recombinant Protein  | -                             | -                   |
| <b>15456S</b> Human IL-18 Recombinant Protein   | -                             | -                   |
| <b>16388S</b> Human IL-23 Recombinant Protein   | -                             | -                   |
| <b>98014S</b> Human IL-37 Recombinant Protein   | -                             | -                   |
| <b>33294S</b> Mouse IFN- $\beta$ Recombinant Protein  | -                             | -                   |
| <b>44039S</b> Mouse IL-15 Recombinant Protein   | -                             | -                   |
| <b>80428S</b> Mouse Stem Cell Factor Recombinant Protein  | -                             | -                   |

# What's New at CST



## Investigate signaling pathways with InTraSeq™ Single Cell Analysis!

- Examine intracellular signaling while preserving RNA
- Explore multiple molecular mechanisms in one experiment
- Works with 10x Genomics Single Cell 3' Gene Expression Assay

[cst-science.com/Q1-2025-info1](https://cst-science.com/Q1-2025-info1)

## Cutting-Edge Tools for CAR-T Therapy Development:

- Novel CAR Linker antibodies for cell characterization
- IHC-validated antibodies for analyzing CAR targets
- Fluorochrome-conjugated antibodies for phenotyping

[cst-science.com/Q1-2025-info2](https://cst-science.com/Q1-2025-info2)

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