



# New Products

MARCH 2025

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

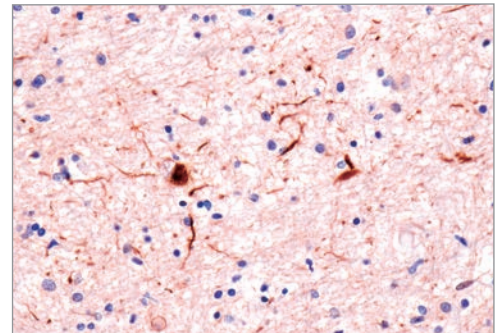
## HOT PRODUCTS

### Phospho-Tau (Ser396) (F3S9T) Rabbit mAb #48856

#### **Tau associated with neurodegenerative diseases**

Tau is a heterogeneous microtubule-associated protein that promotes and stabilizes microtubule assembly, especially in axons. Phosphorylation at Ser396 by GSK-3 or CDK5 destabilizes microtubules. Furthermore, research studies have shown that inclusions of tau are found in a number of other neurodegenerative diseases, collectively known as tauopathies. #48856 is suitable for IHC-P and IF in addition to WB.

**KEYWORDS:** neurodegenerative disease, tauopathy, microtubule-associated protein



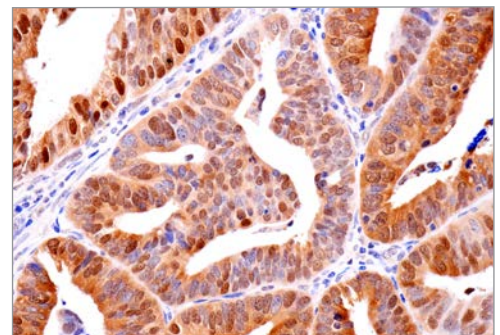
**IHC-P:** IHC analysis of paraffin-embedded human Alzheimer's brain using #48856.

### ATP-Citrate Lyase (F4S7B) Rabbit mAb #73415

#### **ATP-citrate lyase, a central enzyme in metabolism**

ATP-citrate lyase (ACLY) converts citrate to acetyl-CoA, a key step in fatty acid biosynthesis, linking the TCA cycle to lipid metabolism. Ser455 of ATP-citrate lyase has been reported to be phosphorylated by PKA and Akt, and is involved in key processes in cancer, epigenetic control of inflammatory gene expression, and liver fibrosis such as NASH. #73415 is suitable for IHC-P in addition to WB.

**KEYWORDS:** fatty acid synthesis, cancer, liver disease



**IHC-P:** IHC analysis of paraffin-embedded human endometrioid adenocarcinoma using #73415.



PRODUCT	APPLICATIONS	REACTIVITY
<b>Adhesion/Extracellular Matrix</b>		
<b>79846SF</b> GPNMB (E4D7P) XP <sup>®</sup> Rabbit mAb (BSA and Azide Free)	WB, IHC-P	H
<b>57834SF</b> MUC5AC (E9V10) XP <sup>®</sup> Rabbit mAb (BSA and Azide Free)	IHC-P, IF-F	M
<b>90229S</b> Vimentin (D21H3) XP <sup>®</sup> Rabbit mAb (Alexa Fluor <sup>®</sup> 700 Conjugate)	FC-FP	H, M, R, Hm, Mk
<b>72475S</b> Vimentin (D21H3) XP <sup>®</sup> Rabbit mAb (mFluor <sup>™</sup> UV375 Conjugate)	FC-FP	H, M, R, Hm, Mk
<b>63528SF</b> $\gamma$ -Catenin (D9M1Q) Rabbit mAb (BSA and Azide Free)	WB, IHC-P, IF-IC, FC-FP	H
<b>Alzheimer's disease</b>		
<b>83411SF</b> Clusterin (D7N2K) XP <sup>®</sup> Rabbit mAb (BSA and Azide Free)	WB, IHC-P	H
<b>38216SF</b> P2Y12 (E9J1J) Rabbit mAb (BSA and Azide Free)	IF-F	M
<b>28938S</b> Tau 3R (F8P1G) Rabbit mAb	WB	H
<b>28938T</b>		
<b>48856S</b> Phospho-Tau (Ser396) (F3S9T) Rabbit mAb	WB, IP, IHC-P, IF-F, IF-IC	H, M, R
<b>48856T</b>		
<b>Apoptosis</b>		
<b>23976S</b> Phospho-Bad (Ser136) Matched Antibody Pair	ELISA	H, M, R, Mk
<b>62901SF</b> Cleaved Caspase-8 (Asp374) (E6H8S) Rabbit mAb (BSA and Azide Free)	WB, IF-IC, FC-FP	H
<b>97985S</b> Phospho-MLKL (Ser358) Matched Antibody Pair	ELISA	H
<b>79077S</b> Total c-Myc Matched Antibody Pair	ELISA	H, M, R, Mk
<b>Autoimmunity and Inflammation</b>		
<b>28704SF</b> CD46 (D6N7H) Rabbit mAb (BSA and Azide Free)	WB, IHC-P	H, Mk
<b>17688SF</b> CXCL13 (F6A4R) Rabbit mAb (BSA and Azide Free)	WB, IHC-P	H
<b>Autophagy</b>		
<b>34048SF</b> BNIP3 (D7UIT) Rabbit mAb (BSA and Azide Free)	WB, IHC-P, IF-IC	H
<b>57762SF</b> LC3B (D11) XP <sup>®</sup> Rabbit mAb (BSA and Azide Free)	WB, IF-IC, FC-FP	H, (M, R, Mk, B, Pg)
<b>16730S</b> Phospho-mTOR (Ser2481) Matched Antibody Pair	ELISA	H, M
<b>20601C</b> PathScan <sup>®</sup> RP TFE3 Sandwich ELISA Kit	ELISA	H, M
<b>19205C</b> PathScan <sup>®</sup> RP Phospho-TFE3 (Ser321) Sandwich ELISA Kit	ELISA	H, M, R, Mk
<b>26770S</b> Phospho-TFEB (Ser122) Matched Antibody Pair	ELISA	H
<b>75226S</b> WIPI2 (2A2) Mouse mAb	WB, IP	H
<b>Biochemical Metabolism and Signaling</b>		
<b>23408S</b> ACAA2 (F4Y9U) Rabbit mAb	WB	H, M
<b>23408T</b>		
<b>69343S</b> AQP1 (F8C2E) Rabbit mAb	WB, IHC-P, IF-F	H, M, R
<b>69343T</b>		
<b>77668SF</b> Arginase-2 (D9J1N) XP <sup>®</sup> Rabbit mAb (BSA and Azide Free)	WB, IHC-P, FC-FP	H, M, R
<b>54846SF</b> ASS1 (D4O4B) XP <sup>®</sup> Rabbit mAb (BSA and Azide Free)	WB, IHC-P, IF-IC, FC-FP	H, M, R
<b>50226S</b> Phospho-Aurora A (Thr288) Matched Antibody Pair	ELISA	H
<b>95399S</b> Total Cox2 Matched Antibody Pair	ELISA	H
<b>40632SF</b> DPEP-1/MDP (E4O6J) XP <sup>®</sup> Rabbit mAb (BSA and Azide Free)	WB, IHC-P, IF-IC	H
<b>18420S</b> ECHS1 (F4A1Z) Rabbit mAb	WB	H, M, R
<b>18420T</b>		
<b>31743S</b> Eosinophil peroxidase (F407J) Rabbit mAb	WB, IHC-P	H, M
<b>31743T</b>		
<b>18035SF</b> Glut3 (E7M7V) Rabbit mAb (BSA and Azide Free)	WB, IHC-P, IF-IC, FC-FP	H
<b>26706S</b> Phospho-IRS-1 (Ser302) Matched Antibody Pair	ELISA	H
<b>84820S</b> Phospho-IRS-1 (Ser612) Matched Antibody Pair	ELISA	H, R

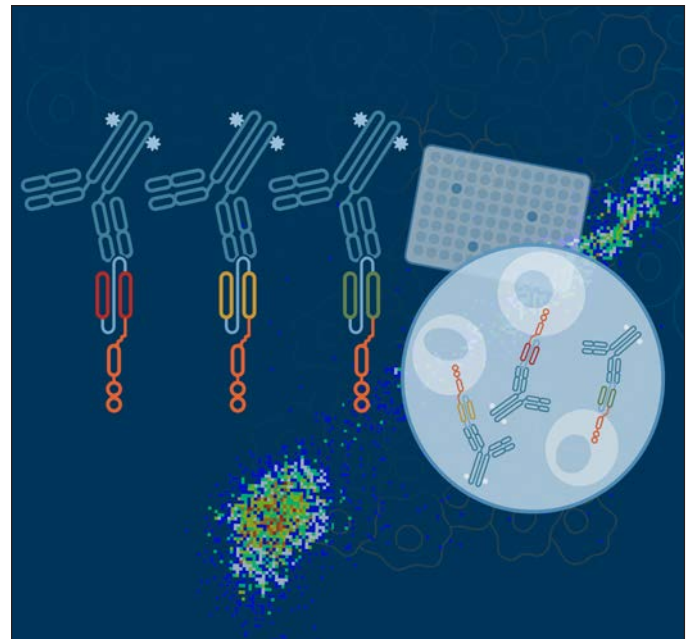
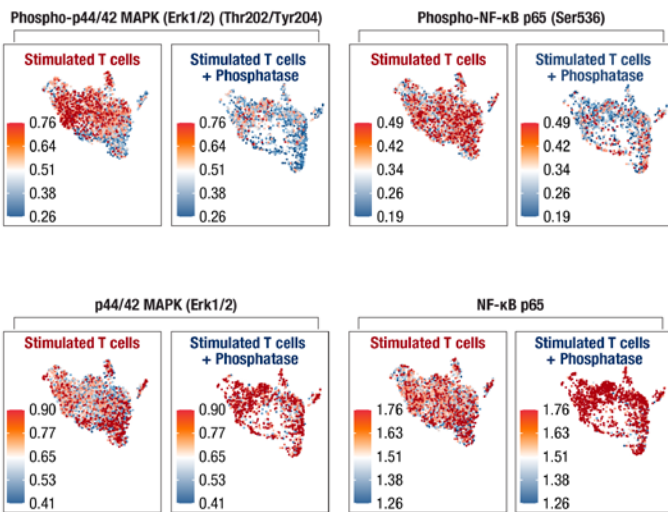
PRODUCT	APPLICATIONS	REACTIVITY
<b>Biochemical Metabolism and Signaling (cont.)</b>		
<b>70247SF</b> MDR1/ABCB1 (E1Y7S) Rabbit mAb (BSA and Azide Free)	WB, IHC-P	H, M, R
<b>87242S</b> MGS11 (F6F5T) Rabbit mAb	WB, IHC-P	H, M, R
<b>87242T</b>		
<b>66518S</b> OAT (F5L4R) Rabbit mAb	WB, IF-IC	H
<b>66518T</b>		
<b>38672SF</b> SCD1 (C12H5) Rabbit mAb (BSA and Azide Free)	WB, IHC-P, IF-IC	H, M
<b>92214S</b> Total Src Matched Antibody Pair	ELISA	H, M
<b>34017SF</b> Thymidine Kinase 1 (E2H7Z) Rabbit mAb (BSA and Azide Free)	WB, IHC-P, IF-IC, FC-FP	H
<b>Cell Cycle</b>		
<b>89217SF</b> FEN-1 (E5X2T) Rabbit mAb (BSA and Azide Free)	WB, IHC-P, IF-IC	H
<b>45199S</b> Phospho-PLK1 (Thr210) Matched Antibody Pair	ELISA	H
<b>Chromatin Acylation and Phosphorylation</b>		
<b>18214S</b> BRD4 Matched Antibody Pair	ELISA	H, M, R, Mk
<b>51225SF</b> HDAC1 (D5C6U) XP <sup>®</sup> Rabbit mAb (BSA and Azide Free)	WB, IHC-P, IF-IC	H, M, R, Mk
<b>Chromatin Methylation and Ubiquitylation</b>		
<b>20059S</b> CoREST (F4R4K) Rabbit mAb	WB, IP	H, M, R, Mk
<b>20059T</b>		
<b>87298SF</b> Menin (E5P1R) Rabbit mAb (BSA and Azide Free)	WB, IHC-P	H, M, R, Mk
<b>53192SF</b> SUZ12 (D39F6) XP <sup>®</sup> Rabbit mAb (BSA and Azide Free)	WB, IF-IC, FC-FP	H, M, R, Mk, (Pg, Hr)
<b>Cohesion and Condensation</b>		
<b>50574S</b> Separase (F4R3M) Rabbit mAb	WB, IP	H
<b>50574T</b>		
<b>Cytoskeletal</b>		
<b>99890SF</b> M-Cadherin (D4B9L) Rabbit mAb (BSA and Azide Free)	WB, IF-F, IF-IC	H, M, (R)
<b>88848SF</b> Keratin 17/19 (D32D9) XP <sup>®</sup> Rabbit mAb (BSA and Azide Free)	WB, IHC-P	H, M, R, Mk
<b>65994S</b> Nestin (F3Y7S) Mouse mAb	WB, IF-F, IF-IC	H, M, R
<b>65994T</b>		
<b>50892S</b> Spastin (E6W7N) Rabbit mAb	WB, IP	H, M, R
<b>50892T</b>		
<b>63045S</b> Acetyl- $\alpha$ -Tubulin Matched Antibody Pair	ELISA	H, M, Mk
<b>90663S</b> VASP (F3S3F) Rabbit mAb	WB, IP, IF-IC	H, M, R
<b>90663T</b>		
<b>Differentiation - Transcription Factor</b>		
<b>68310S</b> TRPS1 (ZR382) Rabbit mAb	IHC-P	H
<b>DNA Damage/Senesence</b>		
<b>66108SF</b> Ape1 (E5Y2C) Rabbit mAb (BSA and Azide Free)	WB, IHC-P, IF-IC	H, M, R
<b>94099S</b> AsCpf1/Cas12a (Strain BV3L6) Matched Antibody Pair	ELISA	All
<b>88389SF</b> p53 (15A5) Rabbit mAb (BSA and Azide Free)	ELISA	H
<b>74875SF</b> XRCC1 (E4A3V) XP <sup>®</sup> Rabbit mAb (BSA and Azide Free)	WB, IHC-P, IF-IC	H, M, R
<b>DNA Methylation</b>		
<b>58658SF</b> DNMT3A (D23G1) Rabbit mAb (BSA and Azide Free)	WB, IHC-P	H, M, R, Mk, B, (Hm, Dg, Pg, Hr)
<b>General Transcription Factors</b>		
<b>96208SF</b> LEDGF (C57G11) Rabbit mAb (BSA and Azide Free)	WB, IHC-P, IF-IC, FC-FP	H, M, R, (Mk)

PRODUCT	APPLICATIONS	REACTIVITY
<b>Hippo</b>		
<b>59695S</b> Phospho-YAP (Ser397) Matched Antibody Pair	ELISA	H
<b>Histones and Histone Modifications</b>		
<b>23726S</b> Acetyl-Histone H2A Matched Antibody Pair	ELISA	H, M, Mk
<b>44879S</b> Acetyl-Histone H2B Matched Antibody Pair	ELISA	H, M, Mk
<b>68690S</b> Mono-Methyl-Histone H3 (Lys9) Matched Antibody Pair	ELISA	H, M, R, Mk
<b>44076S</b> Acetyl-Histone H4 Matched Antibody Pair	ELISA	H, M, Mk
<b>Immune Checkpoints and Ligands</b>		
<b>42163SF</b> PD-1 (D1F1W) Rabbit mAb (BSA and Azide Free)	ELISA	M
<b>69989S</b> Total PD-1 Matched Antibody Pair	ELISA	M
<b>73552S</b> PD-L1 (F3Z1T) Rabbit mAb	WB	M
<b>73552T</b>		
<b>Inflammasome</b>		
<b>96462SF</b> Gasdermin D (E5O4N) Rabbit mAb (BSA and Azide Free)	WB, IHC-P, IF-IC	H
<b>49952S</b> Mouse IL-18 Recombinant Protein	-	-
<b>85393SF</b> p22phox (E7Y1F) XP® Rabbit mAb (BSA and Azide Free)	WB, IHC-P, IF-F, IF-IC	H, M, R
<b>Jak/Stat Signaling</b>		
<b>36289S</b> Total Stat5a Matched Antibody Pair	ELISA	H
<b>79167S</b> Phospho-Stat5a (Tyr694) Matched Antibody Pair	ELISA	H
<b>Lymphocyte Signaling</b>		
<b>63836S</b> Total CrkL Matched Antibody Pair	ELISA	H
<b>74589S</b> Phospho-CrkL (Tyr207) Matched Antibody Pair	ELISA	H
<b>56286S</b> Phospho-LAT (Tyr220) Matched Antibody Pair	ELISA	H
<b>79139S</b> Phospho-SHIP1 (Tyr865) (F3N9M) Rabbit mAb	WB, IP, FC-FP	H, M, R
<b>79139T</b>		
<b>MAP kinase</b>		
<b>56238S</b> Total c-Fos Matched Antibody Pair	ELISA	H, M, Mk
<b>4344S</b> Phospho-p44/42 MAPK (Erk1/2) (Thr202/Tyr204) (D13.14.4E) XP® Rabbit mAb (Alexa Fluor® 488 Conjugate)	IHC-P	H, M, R, Hm, Mk, Mi, Dm, Z, B, Dg, Pg, Sc, (C, Ce)
<b>4284S</b> Phospho-p44/42 MAPK (Erk1/2) (Thr202/Tyr204) (D13.14.4E) XP® Rabbit mAb (Alexa Fluor® 647 Conjugate)	IHC-P	H, M, R, Hm, Mk, Mi, Dm, Z, B, Dg, Pg, Sc, (C, Ce)
<b>Neural function (neurite extension, axonal guidance, synaptogenesis, myelination and neuron-glia cell interactions)</b>		
<b>82846S</b> Doublecortin (E3S7L) Rabbit mAb (Alexa Fluor® 488 Conjugate)	IHC-P	H, M, R
<b>74948S</b> Myelin Basic Protein Matched Antibody Pair	ELISA	H, M, R
<b>26648S</b> SPARCL1 (F3V2I) Mouse mAb	WB, IP, IF-F	M, R
<b>26648T</b>		
<b>Nuclear Structure</b>		
<b>25880SF</b> BAF (E4O8R) Rabbit mAb (BSA and Azide Free)	WB, IF-IC	H, M, R, Mk
<b>Parkinson's disease</b>		
<b>39029SF</b> LRRK2 (E8Z7T) Mouse mAb (BSA and Azide Free)	IHC-P	H
<b>65040S</b> Total LRRK2 Matched Antibody Pair	ELISA	H, M
<b>Phenotyping and Functional Markers</b>		
<b>38052S</b> CD3δ (PSI) Mouse mAb	IHC-P	H
<b>33348SF</b> FcRn (E6D1S) Rabbit mAb (BSA and Azide Free)	WB, FC-FP	H
<b>65494SF</b> MHC Class I (E8E7N) Rabbit mAb (BSA and Azide Free)	WB, IHC-P	H, M

PRODUCT	APPLICATIONS	REACTIVITY
<b>PI3K/Akt/mTOR Signaling</b>		
<b>80623S</b> Phospho-Akt (Ser473) (D9E) XP <sup>®</sup> Rabbit mAb (Alexa Fluor <sup>®</sup> 405 Conjugate)	FC-FP	H, M, R, Hm, Mk, Dm, Z, B, (C, X, Dg, Pg)
<b>63223S</b> Phospho-Akt (Ser473) (D9E) XP <sup>®</sup> Rabbit mAb (Alexa Fluor <sup>®</sup> 594 Conjugate)	FC-FP	H, M, R, Hm, Mk, Dm, Z, B, (C, X, Dg, Pg)
<b>30452S</b> Total FoxO1 Matched Antibody Pair	ELISA	H, M
<b>Post-synapse</b>		
<b>84654SF</b> SHANK3 (D5K6R) Rabbit mAb (BSA and Azide Free)	WB, IF-F	H, M, R
<b>Pre-synapse &amp; transmitters</b>		
<b>61238S</b> Phospho-Synapsin-1 (Ser9) Matched Antibody Pair	ELISA	H, M, R
<b>Proteostasis</b>		
<b>79838S</b> Calreticulin (D3E6) XP <sup>®</sup> Rabbit mAb (Alexa Fluor <sup>®</sup> 750 Conjugate)	FC-FP	H, M, R
<b>38606S</b> CRBN Matched Antibody Pair	ELISA	H, M, R
<b>36658S</b> Phospho-HSP27 (Ser78) (F7M4S) Rabbit mAb	WB, IP, IF-IC	H, Mk
<b>36658T</b>		
<b>8094S</b> PR3 (F7Q7M) Rabbit mAb	WB, IHC-P	H
<b>8094T</b>		
<b>66552SF</b> RBX1 (D3J5I) Rabbit mAb (BSA and Azide Free)	WB, IHC-P	H, M, R, Mk
<b>39269S</b> Ubiquitin (FK2) Mouse mAb	WB, IP	H, M
<b>Receptor signaling: GPCRs, ion channels, RTKs-Neuro, transporters (SLC &amp; ABC)</b>		
<b>95008SF</b> mGluR1 (D5H10) Rabbit mAb (BSA and Azide Free)	WB, IHC-P, IF-F	H, M, R
<b>59679SF</b> SLC40A1/Ferroportin-1 (F9U5S) Rabbit mAb (BSA and Azide Free)	WB, IHC-P	H
<b>REDOX/Energy Metabolism</b>		
<b>51077SF</b> ATP-Citrate Lyase (D1X6P) Rabbit mAb (BSA and Azide Free)	WB, IHC-P	H, M, R
<b>73415S</b> ATP-Citrate Lyase (F4S7B) Rabbit mAb	WB, IHC-P	H, M, R
<b>73415T</b>		
<b>92532SF</b> Catalase (D4P7B) XP <sup>®</sup> Rabbit mAb (BSA and Azide Free)	WB, IHC-P, IF-IC	H
<b>48241S</b> HADHB (F8N5B) Rabbit mAb	WB	H, M, R
<b>48241T</b>		
<b>53396S</b> Phospho-Pyruvate Dehydrogenase $\alpha$ 1 (Ser293) Matched Antibody Pair	ELISA	H, M, R, Mk
<b>79150SF</b> SDHA (D6J9M) XP <sup>®</sup> Rabbit mAb (BSA and Azide Free)	WB, IHC-P, IF-IC, FC-FP	H, M, R, Hm, Mk
<b>RTK-Cell Biology</b>		
<b>31282SF</b> Phospho-ALK (Tyr1586) (3B4) Rabbit mAb (BSA and Azide Free)	WB, ELISA	H, (M)
<b>99057S</b> Total FGF Receptor 2 Matched Antibody Pair	ELISA	H, M
<b>36165S</b> Phospho-FGFR2 (panTyr) Matched Antibody Pair	ELISA	H
<b>20510S</b> Total FLT3 Matched Antibody Pair	ELISA	H
<b>31080S</b> Phospho-HER3/ErbB3 (Tyr1289) Matched Antibody Pair	ELISA	H
<b>84927SF</b> Phospho-HER3/ErbB3 (Tyr1328) (E1J1T) Rabbit mAb (BSA and Azide Free)	WB, ELISA	H, M, (R)
<b>65853S</b> Phospho-IGF-1 Receptor $\beta$ (Tyr1131) Matched Antibody Pair	ELISA	H
<b>68871SF</b> c-Kit (D13A2) XP <sup>®</sup> Rabbit mAb (BSA and Azide Free)	WB, IF-IC, ELISA	H, M
<b>79395S</b> Total ROS1 Matched Antibody Pair	ELISA	H
<b>TGFB/BMP</b>		
<b>15681S</b> Total SMAD3 Matched Antibody Pair	ELISA	H, M, Mi
<b>Transcription Factors (Hematopoiesis and Leukemogenesis)</b>		
<b>51008S</b> Helios (D8W4X) XP <sup>®</sup> Rabbit mAb (Alexa Fluor <sup>®</sup> 750 Conjugate)	FC-FP	H, M
<b>Translational Control</b>		
<b>52223SF</b> eIF3A (D51F4) XP <sup>®</sup> Rabbit mAb (BSA and Azide Free)	WB, IHC-P, IF-IC	H, M, R, Mk

PRODUCT	APPLICATIONS	REACTIVITY
<b>Tumor Microenvironment</b>		
<b>90323SF</b> CCL3/MIP-1α (F2M8Q) Rabbit mAb (BSA and Azide Free)	WB, IHC-P	M
<b>33892SF</b> CXCL10 (F9N8I) Rabbit mAb (BSA and Azide Free)	IHC-P	H
<b>Vesicle and Protein Trafficking</b>		
<b>77305SF</b> RCAS1 (D6P5J) Rabbit mAb (BSA and Azide Free)	WB, IHC-P	H, M, R, Mk, (B, Dg, GP)
<b>59460S</b> RTN3 (F5X9D) Rabbit mAb	WB, IP	H, M, R
<b>59460T</b>		
<b>Related Products</b>		
<b>45943P</b> Peptide Desalting C18 StageTip	PTMScan	-
<b>15859S</b> Streptavidin (APC Conjugate)	-	-
<b>36777S</b> Streptavidin (PE Conjugate)	-	-

# What's New at CST



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

- Examine intracellular with guaranteed robust RNA signal
- Explore multiple molecular mechanisms in one experiment
- Works with 10x Genomics Chromium Single Cell 3' Reagent Kits with Feature Barcoding technology

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

**For Research Use Only. Not for Use in Diagnostic Procedures.**

© 2025 Cell Signaling Technology, Inc. CST, Cell Signaling Technology, and XP are registered trademarks of Cell Signaling Technology, Inc. 10x Genomics, 10x, Feature Barcode, and Chromium are the trademarks or registered trademarks of 10x Genomics, Inc. Subject to patents licensed from 10x Genomics, Inc. for use with single-cell (i.e., Chromium) 10x products. All other trademarks are the property of their respective owners. Visit [cellsignal.com/trademarks](https://cellsignal.com/trademarks) for more information. 24-SCP-88190-EN

## Cutting-Edge Tools for CAR-T Cell 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)

[cellsignal.com/newproducts](https://cellsignal.com/newproducts)

**Cell Signaling**  
TECHNOLOGY®