76 Store at -20C

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TrkC (C44H5) Rabbit mAb

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Applications: W, W-S, IP, IHC-P, IF-IC	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 145, 100	Source/Isotype: Rabbit IgG	UniProt ID: #Q16288	Entrez-Gene Id: 4916
Product Usage Information		Application Western Blotting Simple Western [™] Immunoprecipitation Immunohistochemistr Immunofluorescence (istry)	1 1 1 1	ilution :1000 :50 - 1:250 :50 :1000 :1600
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		TrkC (C44H5) Rabbit mAb detects endogenous levels of total TrkC protein. The antibody does not cross- react with TrkA or TrkB.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide surrounding Gly50 of human TrkC.				
Background		family members is hig by BDNF or NT4, and T number of physiologic and dendrite growth a synaptic strength and maturation of the nerv activation of the Ras-M phosphorylation at the chromosomal rearrand activation of TrkA (7-10 thyroid carcinomas (8- a good prognostic man neural crest (10). The phosphorylation s in TrkC, and Tyr674/67 have demonstrated alt	hly conserved, they rkC by NT3 (1). Net al processes, such nd patterning (1). I plasticity. TrkA regu- ous system (2). Ph- lAP kinase cascade ese sites reflects Trl gements (chimeras 0). TrkA is activated 13). Research studi rker as TrkA signals ites are conserved 5 of TrkA to Tyr709 rered TrkC expressi expression as a po	es consists of TrkA, TrkB, v are activated by differe urotrophin signaling thro as cell survival, prolifera n the adult nervous syst ulates proliferation and i osphorylation at Tyr490 (3,4). Residues Tyr674/6 (A kinase activity (3-6). P) cause ligand-independ in many malignancies ir es suggest that expressi growth arrest and diffe between TrkA and TrkC: /710 in TrkC of the huma on and corresponding g tential positive prognost	nt neurotrophins: T bugh these recepto tion, neural develo em, the Trk recepto s important for dev is required for Shc i75 lie within the ca oint mutations, del ent receptor dimer rentiation of cells o Tyr490 of TrkA corri an sequence (14). R ene mutations in v	TrkA by NGF, TrkB rs regulates a pment, and axon prs regulate velopment and association and italytic domain, and letions, and arian, prostate, and oblastomas may be originating from the responds to Tyr516 tesearch studies arious forms of
Background References		 Huang, E.J. and Reichardt, L.F. (2003) <i>Annu Rev Biochem</i> 72, 609-42. Segal, R.A. and Greenberg, M.E. (1996) <i>Annu Rev Neurosci</i> 19, 463-89. Stephens, R.M. et al. (1994) <i>Neuron</i> 12, 691-705. Marsh, H.N. et al. (2003) <i>J Cell Biol</i> 163, 999-1010. Obermeier, A. et al. (1993) <i>EMBO J</i> 12, 933-41. Obermeier, A. et al. (2001) <i>Oncogene</i> 20, 1229-34. Reuther, G.W. et al. (2000) <i>Mol Cell Biol</i> 20, 8655-66. Greco, A. et al. (1997) <i>Genes Chromosomes Cancer</i> 19, 112-23. Pierotti, M.A. and Greco, A. (2006) <i>Cancer Lett</i> 232, 90-8. Lagadec, C. et al. (2007) <i>Oncogene</i> 28, 1960-70. Greco, A. et al. (2007) <i>Hum Pathol</i> 38, 140-6. Huang, E.J. and Reichardt, L.F. (2003) <i>Annu Rev Biochem</i> 72, 609-42. Segal, R.A. et al. (1994) <i>Proc Natl Acad Sci U S A</i> 91, 12867-71. 				

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).				
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key	W: Western Blotting W-S: Simple Western™ IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry)				
Cross-Reactivity Key	H: Human M: Mouse R: Rat				
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