Phospho-TrkA (Tyr785)/TrkB (Tyr816) (C67C8) Rabbit mAb



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

Applications: W	Reactivity: H	Sensitivity: Transfected Only	MW (kDa): 140	Source/Isotype: Rabbit IgG	UniProt ID: #P04629, #Q16620	Entrez-Gene Id 4914, 4915
Product Usage Information		Application Western Blotting		Dilution 1:1000		
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		Phospho-TrkA (Tyr785)/TrkB (Tyr816) (C67C8) Rabbit mAb detects transfected levels of TrkA and TrkB when phosphorylated at Tyr785 of TrkA or Tyr816 of TrkB. This antibody may cross-react with other tyrosine-phosphorylated proteins.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr785 of human TrkA protein.				
Background		The family of Trk receptamily members is hig by BDNF or NT4, and Tourney and dendrite growth a synaptic strength and maturation of the Ras-Nephosphorylation at the chromosomal rearrang activation of TrkA (7-10 thyroid carcinomas (8-a good prognostic maneural crest (10). Phosphorylation at Tythe Ras-MAP kinase ca of TrkA corresponds to	hly conserved, the rkC by NT3 (1). Ne cal processes, such and patterning (1). plasticity. TrkA reg yous system (2). Phase kinase cascades es estes reflects Tregements (chimerase). TrkA is activated 13). Research stud rker as TrkA signal 1785 is required for iscade. The phosph	y are activated by diffeurotrophin signaling thas cell survival, prolife In the adult nervous syulates proliferation aniosphorylation at Tyr49 (3,4). Residues Tyr674 (kA kinase activity (3-6) is cause ligand-indepoli in many malignancies as growth arrest and differ activation of phosphonorylation site is conse	rent neurotrophins: Trl nrough these receptors ration, neural developi /stem, the Trk receptor d is important for deve 80 is required for Shc as 1/675 lie within the cata Point mutations, delei ndent receptor dimeriz is including breast, ovar ssion of TrkA in neurob ferentiation of cells ori	A by NGF, TrkB regulates a ment, and axon s regulate lopment and ssociation and slytic domain, and ation and ian, prostate, and lastomas may be ginating from the ent activation of
Background References		1. Huang, E.J. and Reichardt, L.F. (2003) <i>Annu Rev Biochem</i> 72, 609-42. 2. Segal, R.A. and Greenberg, M.E. (1996) <i>Annu Rev Neurosci</i> 19, 463-89. 3. Stephens, R.M. et al. (1994) <i>Neuron</i> 12, 691-705. 4. Marsh, H.N. et al. (2003) <i>J Cell Biol</i> 163, 999-1010. 5. Obermeier, A. et al. (1993) <i>EMBO J</i> 12, 933-41. 6. Obermeier, A. et al. (1994) <i>EMBO J</i> 13, 1585-90. 7. Arevalo, J.C. et al. (2001) <i>Oncogene</i> 20, 1229-34. 8. Reuther, G.W. et al. (2000) <i>Mol Cell Biol</i> 20, 8655-66. 9. Greco, A. et al. (1997) <i>Genes Chromosomes Cancer</i> 19, 112-23. 10. Pierotti, M.A. and Greco, A. (2006) <i>Cancer Lett</i> 232, 90-8. 11. Lagadec, C. et al. (2009) <i>Oncogene</i> 28, 1960-70. 12. Greco, A. et al. (2010) <i>Mol Cell Endocrinol</i> 321, 44-9. 13. Ødegaard, E. et al. (2007) <i>Hum Pathol</i> 38, 140-6. 14. Chou, T.T. et al. (2000) <i>J Biol Chem</i> 275, 565-70.				

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

Cross-Reactivity Key

H: Human

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