## TrkA (12G8) Rabbit mAb



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

<b>Applications:</b> W, IHC-P	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 140	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P04629	Entrez-Gene Id: 4914
Product Usage Information		<b>Application</b> Western Blotting Immunohistochemistry (Paraffin)			<b>Dilution</b> 1:1000 1:400	
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.				
		For a carrier free (BSA and azide free) version of this product see product #86180.				
Specificity/Sensitivity		TrkA (12G8) Rabbit mAb detects endogenous levels of total TrkA protein. This antibody does not cross-react with TrkB.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide surrounding Arg220 of human TrkA.				
Background		family members is hig by BDNF or NT4, and number of physiologic and dendrite growth a synaptic strength and maturation of the ner- activation of the Ras-N phosphorylation at th chromosomal rearran activation of TrkA (7-1 thyroid carcinomas (8	hly conserved, they IrkC by NT3 (1). Net all processes, such and patterning (1). I plasticity. TrkA reg vous system (2). Phe MAP kinase cascade ese sites reflects Tregements (chimeras 0). TrkA is activated 13). Research stud	es consists of TrkA, TrkB, are activated by differe urotrophin signaling throws cell survival, proliferant the adult nervous systalates proliferation and its properties of the activity (3-4). Residues Tyr674/6 kA kinase activity (3-6). Poly cause ligand-independin many malignancies it es suggest that expressing growth arrest and differance activity and differance activity (3-6).	nt neurotrophins: I ough these recepto tion, neural develo em, the Trk recepto is important for develois required for Sho is required for Sho iont mutations, del ent receptor dimer ion of TrkA in neuro ion of TrkA in neuro	rkA by NGF, TrkB rs regulates a pment, and axon ors regulate velopment and association and talytic domain, and etions, and ization and arian, prostate, and oblastomas may be
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.				

**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 IHC-P: Immunohistochemistry (Paraffin)

**Cross-Reactivity Key** 

H: Human

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