## TrkB (80G2) Rabbit mAb Image: Coll Signaling tender Orders: 877-616-CELL (2355)<br/>orders@cellsignal.com Support: 877-678-TECH (8324) Web: info@cellsignal.com<br/>cellsignal.com 3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: IHC-P	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 140	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q16620	Entrez-Gene Id: 4915
Product Usage Information		ApplicationDilutionImmunohistochemistry (Paraffin)1:2560				
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		TrkB (80G2) Rabbit mAb detects endogenous levels of total TrkB protein. The antibody does not cross- react with TrkA.				
Species predicted to react based on 100% sequence homology		Mouse, Rat				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide surrounding Pro50 of human TrkB.				
Background		family members is hig by BDNF or NT4, and number of physiologi and dendrite growth a synaptic strength and maturation of the Ras-I phosphorylation at th chromosomal rearran activation of TrkA (7-1 thyroid carcinomas (8 a good prognostic ma neural crest (10). The phosphorylation s in TrkB, and Tyr674/61 overexpressed in tum adenocarcinoma (15). correlates with an unipotentiated by additic alternatively spliced to	hly conserved, they TrkC by NT3 (1). New cal processes, such and patterning (1). 1 l plasticity. TrkA reg vous system (2). Ph MAP kinase cascade ese sites reflects Tr ogements (chimeras 0). TrkA is activated -13). Research stud arker as TrkA signals sites are conserved 75 of TrkA to Tyr706 ors, such as neurob Research studies h favorable disease of onal overexpression runcated TrkB isofo	es consists of TrkA, TrkB, y are activated by differe urotrophin signaling thre as cell survival, prolifera (in the adult nervous syst ulates proliferation and osphorylation at Tyr490 e (3,4). Residues Tyr674/6 kA kinase activity (3-6). F (c) cause ligand-independ in many malignancies in ies suggest that express s growth arrest and diffe between TrkA and TrkB (707 in TrkB of the hum plastoma, prostate adem ave shown that in neuro utcome when autocrine of brain-derived neurot rm lacking the kinase dom minant-negative regulat	ent neurotrophins: T ough these recepto ation, neural develop tem, the Trk recepto is important for dev is required for Shc 575 lie within the ca Point mutations, del lent receptor dimeri ncluding breast, ova ion of TrkA in neuro erentiation of cells o Tyr490 of TrkA corr an sequence (14). The ocarcinoma, and pa oblastomas, overexp loops signaling turr crophic factor (BDNF omain is overexpres	TrkA by NGF, TrkB rs regulates a pment, and axon prs regulate velopment and association and talytic domain, and etions, and ization and arian, prostate, and oblastomas may be vriginating from the responds to Tyr512 rkB is ncreatic ductal pression of TrkB nor survival are E) (16-18). An sed in Wilms'
Background Re	ferences	<ol> <li>Segal, R.A. and Gree</li> <li>Stephens, R.M. et a</li> <li>Marsh, H.N. et al. (2</li> <li>Obermeier, A. et al.</li> <li>Obermeier, A. et al.</li> <li>Obermeier, A. et al. (2</li> <li>Reuther, G.W. et al.</li> <li>Greco, A. et al. (199</li> <li>Pierotti, M.A. and et al.</li> <li>Dierotti, M.A. et al.</li> <li>Greco, A. et al. (2</li> <li>Greco, A. et al.</li> <li>Bigadec, C. et al. (12</li> <li>Greco, A. et al.</li> <li>Ødegaard, E. et al.</li> </ol>	enberg, M.E. (1996) I. (1994) <i>Neuron</i> 12, 2003) <i>J Cell Biol</i> 163, (1993) <i>EMBO J</i> 12, 9 (1994) <i>EMBO J</i> 13, 1 2001) <i>Oncogene</i> 20, (2000) <i>Mol Cell Biol</i> 7) <i>Genes Chromoso</i> Greco, A. (2006) <i>Cal</i> 2009) <i>Oncogene</i> 28 10) <i>Mol Cell Endocr</i> . (2007) <i>Hum Patho</i> . bichardt, L.F. (2003) <i>J</i> seper, D.S. (2005) <i>Ca</i>	999-1010. 933-41. 585-90. 1229-34. 20, 8655-66. <i>Immes Cancer</i> 19, 112-23. <i>Incer Lett</i> 232, 90-8. 1960-70. <i>Imol</i> 321, 44-9. 138, 140-6. <i>Annu. Rev. Biochem.</i> 72, <i>Immer Res</i> 65, 7033-6.	463-89.	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).			
Applications Key	IHC-P: Immunohistochemistry (Paraffin)			
Cross-Reactivity Key	H: Human			
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