Store at -20C

<u> 1</u>4621

Phospho-TrkA (Tyr674/675)/TrkB (Tyr706/707) (C50F3) Rabbit mAb



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Applications: React WB, IP H I		MW (kDa): 140	Source/Isotype: Rabbit IgG	UniProt ID: #P04629, #Q16620	Entrez-Gene Id: 4914, 4915
Product Usage Information	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50	
StorageSupplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/r0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.				ol and less than	
Specificity / Sensitivity	Phospho-TrkA (Tyr674/675)/TrkB (Tyr706/707) (C50F3) Rabbit mAb detects endogenous levels of Trk/ and TrkB only when phosphorylated at Tyr674/675 of TrkA and Tyr706/707 of TrkB. The antibody may cross-react with a protein of ~150 kDa phosphorylated at an unknown tyrosine residue.				
Species predicted to react based on 100% sequence homology:	Mouse				
Source / Purification	Monoclonal antibody is p residues surrounding Ty		•	a synthetic phosphopeptic	le corresponding to
Background	family members is highly BDNF or NT4, and TrkC physiological processes, growth and patterning (1 plasticity. TrkA regulates system (2). Phosphoryla kinase cascade (3,4). Re sites reflects TrkA kinase (chimeras) cause ligand- in many malignancies in suggest that expression growth arrest and differe The phosphorylation site TrkB, and Tyr674/675 of tumors, such as neuroble Research studies have s unfavorable disease out overexpression of brain-	v conserved, the by NT3 (1). Neu- such as cell sui). In the adult ne- proliferation and tion at Tyr490 is esidues Tyr674/6 e activity (3-6). P- independent re- cluding breast, co of TrkA in neuro ntiation of cells es are conserved TrkA to Tyr706/ astoma, prostate shown that in ne- come when auto derived neurotro te domain is over	y are activated by diffe irotrophin signaling the revival, proliferation, nei- ervous system, the Trk d is important for deve required for Shc asso 575 lie within the cataly cont mutations, deletion ceptor dimerization and blastomas may be a g originating from the nei- between TrkA and Tr 707 in TrkB of the hum e adenocarcinoma, and uroblastomas, overexp orrine loops signaling to phic factor (BDNF) (10 erexpressed in Wilms'	kB, and TrkC. While the s erent neurotrophins: TrkA rough these receptors reg ural development, and ax receptors regulate synap lopment and maturation o ciation and activation of th ytic domain, and phospho ons, and chromosomal rea d activation of TrkA (7-10) thyroid carcinomas (8-13) ood prognostic marker as ural crest (10). kB: Tyr490 of TrkA correst an sequence (14). TrkB is d pancreatic ductal adence pression of TrkB correlate: umor survival are potentia 6-18). An alternatively split tumors and this isoform m	by NGF, TrkB by ulates a number of on and dendrite tric strength and if the nervous he Ras-MAP rylation at these arrangements b. TrkA is activated . Research studies a TrkA signals ponds to Tyr512 in s overexpressed in becarcinoma (15). s with an ated by additional iced truncated TrkB
Background References	 Huang, E.J. and Reich Segal, R.A. and Greer Stephens, R.M. et al. Marsh, H.N. et al. (200 Obermeier, A. et al. (1 Obermeier, A. et al. (1 Arevalo, J.C. et al. (200 Reuther, G.W. et al. (1997) Pierotti, M.A. and Greet Lagadec, C. et al. (200 	hberg, M.E. (199 (1994) Neuron 1 (1994) Zell Biol 16 (1993) EMBO J 12 (1994) EMBO J 12 (1994) EMBO J 12 (1900) Mol Cell B Genes Chromo (2006) Ca	 Annu Rev Neurosc 69 Annu Rev Neurosc 691-705. 999-1010. 933-41. 1585-90. 1229-34. 20, 1229-34. somes Cancer 19, 11: uncer Lett 232, 90-8. 	i 19, 463-89.	

1/1/24, 1:19 PM	 Phospho-TrkA (Tyr674/675)/TrkB (Tyr706/707) (C50F3) Rabbit mAb (#4621) Datasheet Without Images Cell 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. Huang, E.J. and Reichardt, L.F. (2003) <i>Annu. Rev. Biochem.</i> 72, 609-642. 15. Geiger, T.R. and Peeper, D.S. (2005) <i>Cancer Res</i> 65, 7033-6. 16. Han, L. et al. (2007) <i>Med Hypotheses</i> 68, 407-9. 17. Aoyama, M. et al. (2001) <i>Cancer Lett</i> 164, 51-60. 18. Desmet, C.J. and Peeper, D.S. (2006) <i>Cell Mol Life Sci</i> 63, 755-9.
Species Reacti	vity Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot B	uffer 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 K	ey WB: Western Blotting IP: Immunoprecipitation
Cross-Reactivi	 ty Key H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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