Store at -20C

<u> 1</u>4621

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



Orders:	877-616-CELL (2355) orders@cellsignal.com
Support:	877-678-TECH (8324)
Web:	info@cellsignal.com cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: React WB, IP H I		<b>MW (kDa):</b> 140	Source/Isotype: Rabbit IgG	<b>UniProt ID:</b> #P04629, #Q16620	Entrez-Gene Id: 4914, 4915
Product Usage Information	Application Western Blotting Immunoprecipitation			<b>Dilution</b> 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	<ol> <li>Huang, E.J. and Reich</li> <li>Segal, R.A. and Greer</li> <li>Stephens, R.M. et al.</li> <li>Marsh, H.N. et al. (200</li> <li>Obermeier, A. et al. (1</li> <li>Obermeier, A. et al. (1</li> <li>Arevalo, J.C. et al. (200</li> <li>Reuther, G.W. et al. (1997)</li> <li>Pierotti, M.A. and Greet</li> <li>Lagadec, C. et al. (200</li> </ol>	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	<ol> <li>Annu Rev Neurosc</li> <li>69 Annu Rev Neurosc</li> <li>691-705.</li> <li>999-1010.</li> <li>933-41.</li> <li>1585-90.</li> <li>1229-34.</li> <li>20, 1229-34.</li> <li>somes Cancer 19, 11:</li> <li>uncer Lett 232, 90-8.</li> </ol>	i 19, 463-89.	

1/1/24, 1:19 PM	<ul> <li>Phospho-TrkA (Tyr674/675)/TrkB (Tyr706/707) (C50F3) Rabbit mAb (#4621) Datasheet Without Images Cell</li> <li>12. Greco, A. et al. (2010) <i>Mol Cell Endocrinol</i> 321, 44-9.</li> <li>13. Ødegaard, E. et al. (2007) <i>Hum Pathol</i> 38, 140-6.</li> <li>14. Huang, E.J. and Reichardt, L.F. (2003) <i>Annu. Rev. Biochem.</i> 72, 609-642.</li> <li>15. Geiger, T.R. and Peeper, D.S. (2005) <i>Cancer Res</i> 65, 7033-6.</li> <li>16. Han, L. et al. (2007) <i>Med Hypotheses</i> 68, 407-9.</li> <li>17. Aoyama, M. et al. (2001) <i>Cancer Lett</i> 164, 51-60.</li> <li>18. Desmet, C.J. and Peeper, D.S. (2006) <i>Cell Mol Life Sci</i> 63, 755-9.</li> </ul>
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	<ul> <li>ty Key</li> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>
Trademarks an Patents	<ul> <li>Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.</li> <li>U.S. Patent No. 7,429,487, foreign equivalents, and child patents deriving therefrom.</li> <li>All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.</li> </ul>
Limited Uses	Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.
	Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.