

## TrK (pan) (A7H6R) Rabbit mAb (Biotinylated)



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

| Applications:<br>W           | <b>Reactivity:</b><br>H M R | <b>Sensitivity:</b><br>Endogenous   | <b>MW (kDa):</b><br>120-140   | <b>Source/Isotype:</b><br>Rabbit IgG  | <b>UniProt ID:</b><br>#P04629, #Q16288,<br>#Q16620   | <b>Entrez-Gene Id:</b> 4914, 4916, 4915   |
|------------------------------|-----------------------------|---|---|---|--|---|
| Product Usage<br>Information | e                           | <b>Application</b> Western Blotting   |   |   | <b>Dilution</b><br>1:1000  |   |
| Storage                      |                             | Supplied in 140 mM NaCl, 3 mM KCI, 10 mM sodium phosphate (pH 7.4) dibasic, 2 mM potassium phosphate monobasic, 2 mg/mL BSA, and 50% glycerol. Store at –20°C. <i>Do not aliquot the antibody.</i>  |   |   |  |   |
| Specificity/Sensitivity      |                             | Trk (pan) (A7H6R) Rabbit mAb (Biotinylated) detects endogenous levels of total Trk protein. This antibody detects TrkA, TrkB and TrkC. However, the antibody may perferentially detect TrkA over TrkB and TrkB over TrkC.   |   |   |  |   |
| Source / Purification        |                             | Monoclonal antibody is produced by immunizing animals with a synthetic peptide surrounding Tyr791 of human TrkA.  |   |   |  |   |
| Description                  |                             | This Cell Signaling Technology antibody is conjugated to biotin under optimal conditions. The biotinylated antibody is expected to exhibit the same species cross-reactivity as the unconjugated Trk (pan) (A7H6R) Rabbit mAb #92991.   |   |   |  |   |
| Background                   |                             | family members is hig<br>by BDNF or NT4, and<br>number of physiologi<br>and dendrite growth<br>synaptic strength and<br>maturation of the ner<br>activation of the Ras-<br>phosphorylation at the<br>chromosomal rearrar<br>activation of TrkA (7-1<br>thyroid carcinomas (8)   | ghly conserved, the<br>TrkC by NT3 (1). Nei<br>cal processes, such<br>and patterning (1).<br>I plasticity. TrkA reg<br>vous system (2). Ph<br>MAP kinase cascade<br>lese sites reflects Tr<br>ngements (chimeras<br>0). TrkA is activated<br>3-13). Research stud | y are activated by diffe urotrophin signaling that cell survival, prolife in the adult nervous sy ulates proliferation and osphorylation at Tyr49 (3,4). Residues Tyr674 kA kinase activity (3-6). I cause ligand-indeper in many malignancies suggest that express | B, and TrkC. While the strent neurotrophins: Trk rough these receptors ration, neural development, the Trk receptors is important for development is required for Shc as Joint mutations, deleting the ceptor dimerization of TrkA in neurobiferentiation of cells ori | A by NGF, TrkB regulates a nent, and axon segulate opment and sociation and lytic domain, and ions, and ation and lastomas may be |
| Background References        |                             | <ol> <li>Huang, E.J. and Reichardt, L.F. (2003) <i>Annu Rev Biochem</i> 72, 609-42.</li> <li>Segal, R.A. and Greenberg, M.E. (1996) <i>Annu Rev Neurosci</i> 19, 463-89.</li> <li>Stephens, R.M. et al. (1994) <i>Neuron</i> 12, 691-705.</li> <li>Marsh, H.N. et al. (2003) <i>J Cell Biol</i> 163, 999-1010.</li> <li>Obermeier, A. et al. (1993) <i>EMBO J</i> 12, 933-41.</li> <li>Obermeier, A. et al. (1994) <i>EMBO J</i> 13, 1585-90.</li> <li>Arevalo, J.C. et al. (2001) <i>Oncogene</i> 20, 1229-34.</li> <li>Reuther, G.W. et al. (2000) <i>Mol Cell Biol</i> 20, 8655-66.</li> <li>Greco, A. et al. (1997) <i>Genes Chromosomes Cancer</i> 19, 112-23.</li> <li>Pierotti, M.A. and Greco, A. (2006) <i>Cancer Lett</i> 232, 90-8.</li> <li>Lagadec, C. et al. (2009) <i>Oncogene</i> 28, 1960-70.</li> <li>Greco, A. et al. (2010) <i>Mol Cell Endocrinol</i> 321, 44-9.</li> <li>Ødegaard, E. et al. (2007) <i>Hum Pathol</i> 38, 140-6.</li> </ol> |   |   |  |   |

**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  $4^{\circ}$ C with gentle shaking, overnight.

Applications Key W: Western Blotting

**Cross-Reactivity Key** 

H: Human M: Mouse R: Rat

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