## ក្តុ Trk (pan) (C17F1) Rabbit mAb





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| <b>Applications:</b><br>W, IP, IF-IC, FC-FP | <b>Reactivity:</b><br>H M R | <b>Sensitivity:</b><br>Endogenous  | <b>MW (kDa):</b><br>140   | <b>Source/Isotype:</b><br>Rabbit IgG   | <b>UniProt ID:</b><br>#P04629, #Q16288,<br>#Q16620   | <b>Entrez-Gene Id:</b><br>4914, 4916, 4915  |
|---|-----------------------------|--|---|--|--|---|
| Product Usage<br>Information                |                             | <b>Application</b><br>Western Blotting<br>Immunoprecipitation<br>Immunofluorescence (<br>Flow Cytometry (Fixed/  |   | istry)   |  | <b>Dilution</b><br>1:1000<br>1:50<br>1:100<br>1:800   |
| Storage                                     |                             | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than<br>0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.  |   |  |  |   |
| Specificity/Sensitivity                     |                             | Trk (pan) (C17F1) Rabbit mAb detects endogenous levels of total Trk protein. This antibody detects TrkA,<br>TrkB and TrkC.   |   |  |  |   |
| Source / Purification                       |                             | Monoclonal antibody is produced by immunizing animals with a synthetic peptide surrounding Tyr785 of human TrkA.   |   |  |  |   |
| Background                                  |                             | The family of Trk recept<br>family members is high<br>by BDNF or NT4, and Tr<br>number of physiologica<br>and dendrite growth ar<br>synaptic strength and p<br>maturation of the nerve<br>activation of the Ras-M<br>phosphorylation at the<br>chromosomal rearrang<br>activation of TrkA (7-10<br>thyroid carcinomas (8-1<br>a good prognostic mar<br>neural crest (10).  | nly conserved, they<br>rkC by NT3 (1). Neu<br>al processes, such<br>nd patterning (1). I<br>plasticity. TrkA regious<br>system (2). Ph<br>AP kinase cascade<br>se sites reflects Tri<br>gements (chimeras<br>). TrkA is activated<br>I 3). Research studi | v are activated by differ<br>urotrophin signaling th<br>as cell survival, prolife<br>in the adult nervous sy<br>ulates proliferation and<br>osphorylation at Tyr49<br>(3,4). Residues Tyr674<br>kA kinase activity (3-6).<br>) cause ligand-indeper<br>in many malignancies<br>les suggest that expres | rent neurotrophins: Trl<br>prough these receptors<br>ration, neural develop<br>stem, the Trk receptor<br>d is important for deve<br>0 is required for Shc as<br>/675 lie within the cata<br>Point mutations, delet<br>indent receptor dimeriz<br>including breast, ovar<br>ssion of TrkA in neurob | kA by NGF, TrkB<br>s regulates a<br>ment, and axon<br>s regulate<br>lopment and<br>ssociation and<br>alytic domain, and<br>tions, and<br>ation and<br>ian, prostate, and<br>lastomas may be |
| Background References                       |                             | <ol> <li>Huang, E.J. and Reichardt, L.F. (2003) Annu Rev Biochem 72, 609-42.</li> <li>Segal, R.A. and Greenberg, M.E. (1996) Annu Rev Neurosci 19, 463-89.</li> <li>Stephens, R.M. et al. (1994) Neuron 12, 691-705.</li> <li>Marsh, H.N. et al. (2003) J Cell Biol 163, 999-1010.</li> <li>Obermeier, A. et al. (1993) EMBO J 12, 933-41.</li> <li>Obermeier, A. et al. (1994) EMBO J 13, 1585-90.</li> <li>Arevalo, J.C. et al. (2001) Oncogene 20, 1229-34.</li> <li>Reuther, G.W. et al. (2000) Mol Cell Biol 20, 8655-66.</li> <li>Greco, A. et al. (1997) Genes Chromosomes Cancer 19, 112-23.</li> <li>Pierotti, M.A. and Greco, A. (2006) Cancer Lett 232, 90-8.</li> <li>Lagadec, C. et al. (2009) Oncogene 28, 1960-70.</li> <li>Greco, A. et al. (2001) Mol Cell Endocrinol 321, 44-9.</li> <li>Ødegaard, E. et al. (2007) Hum Pathol 38, 140-6.</li> </ol> |   |  |  |   |
| Species Reactiv                             | ity                         | Species reactivity is det  | ermined by testin   | g in at least one appro  | ved application (e.g., w   | vestern blot).  |
| Western Blot Buffer                         |                             | IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.  |   |  |  | 5% w/v BSA, 1X  |
| Applications Ke                             | ey.                         | W: Western Blotting IP.<br>FP: Flow Cytometry (Fix   |   |  | orescence (Immunocy  | tochemistry) <b>FC-</b>   |

| Cross-Reactivity Key   | H: Human M: Mouse R: Rat  |  |  |  |  |
|------------------------|---|--|--|--|--|
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