

NTRK2 Polyclonal Antibody

Catalog Number: E92099

Amount: 100ul

Background: The family of Trk receptor tyrosine kinases consists of TrkA, TrkB, and TrkC. While the

sequence of these family members is highly conserved, they are activated by different neurotrophins: TrkA by NGF, TrkB by BDNF or NT4, and TrkC by NT3 (1). Neurotrophin signaling through these receptors regulates a number of physiological processes, such as cell survival, proliferation, neural development, and axon and dendrite growth and patterning (1). In the adult nervous system, the Trk receptors regulate synaptic strength and plasticity. TrkA regulates proliferation and is important for development and maturation of the nervous system (2). Phosphorylation at Tyr490 is required for Shc association and activation of the Ras-MAP kinase cascade (3,4). Residues Tyr674/675 lie within the catalytic domain, and phosphorylation at these sites reflects TrkA kinase activity (3-6). Point mutations, deletions, chromosomal rearrangements (chimeras) ligand-independent receptor dimerization and activation of TrkA (7-10). TrkA is activated in many malignancies including breast, ovarian, prostate, and thyroid carcinomas (8-13). Research studies suggest that expression of TrkA in neuroblastomas may be a good prognostic marker as TrkA signals growth arrest and differentiation of cells originating from the neural crest (10).

Species: Rabbit Isotype: IgG

Storage/Stability: Store at -20oC or -80oC. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide,

50% glycerol, pH7.3.

Synonyms: GP145-TrkB; TRKB;

Immunogen: Recombinant proteinof human NTRK2

Purification: Affinity purification

Reactivity: H M R
Applications: WB IHC
Molecular Weight: 90kDa
Swiss-Prot No.: Q16620
Gene ID: 4915

References: 1. H

1. Huang, E.J. and Reichardt, L.F. (2003) Annu Rev Biochem 72, 609-42. 2. Segal, R.A. and Greenberg, M.E. (1996) Annu Rev Neurosci 19, 463-89. 3. Stephens, R.M. et al. (1994) Neuron 12, 691-705. 4. Marsh, H.N. et al. (2003) J Cell Biol 163, 999-1010. 5. Obermeier, A. et al. (1993) EMBO J 12, 933-41. 6. Obermeier, A. et al. (1994) EMBO J 13, 1585-90. 7. Arevalo, J.C. et al. (2001) Oncogene 20, 1229-34. 8. Reuther, G.W. et al. (2000) Mol Cell Biol 20, 8655-66. 9. Greco, A. et al. (1997) Genes Chromosomes Cancer 19, 112-23. 10.

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