

Polyclonal Antibody to Trk - Purified

Catalog No.:	SP1208P
Quantity:	0.1 mg
Concentration:	0.1 mg/ml
Background:	The trk proto-oncogene encodes a 140-kilodalton, membrane-spanning protein Trk that is expressed only in neural tissues. Nerve growth factor (NGF) stimulates phosphorylation of Trk in neural cell lines and in embryonic dorsal root ganglia. Affinity cross-linking and equilibrium binding experiments indicate that Trk binds NGF specifically in cultured cells with a dissociation constant of 10 ⁻⁹ molar. The identification of Trk as an NGF receptor indicates that this protein participates in the primary signal transduction mechanism of NGF. Nerve growth factor and its high-affinity receptor Trk are thought to be involved in the progression of various cancers. NGF interacts with two different low-affinity receptors that can be distinguished by affinity crosslinking. Reconstitution experiments by membrane fusion and transient transfection into heterologous cells indicate that high-affinity NGF binding requires coexpression and binding to both the low-affinity NGF receptor and Trk. These studies reveal a new growth factor receptor-mediated mechanism of cellular differentiation involving Trk and the low-affinity NGF receptor.
Host:	Rabbit
Immunogen:	Synthetic peptide selected from the C-terminal catalytic domain of the human trk proto-oncogene amino acid sequence. AA Sequence: (Cys)-Ala-Leu-Ala-Gln-Ala-Pro-Pro-Val-Tyr-Leu-Asp-Val-Leu-Gly
Format:	State: Liquid purified IgG fraction with 0.09% Sodium Azide as preservative. Purification: Affinity Chromatography on Protein A..
Applications:	Western Blot (1/200). Immunoprecipitation. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises both the Trk proto-oncogene and oncogene product (140kD and 70kD proteins respectively). Species: Human. Other species not tested.
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Martin-Zanca D, Oskam R, Mitra G, Copeland T, Barbacid M. Molecular and biochemical characterization of the human trk proto-oncogene. Mol Cell Biol. 1989 Jan;9(1):24-33. PubMed PMID: 2927393.