

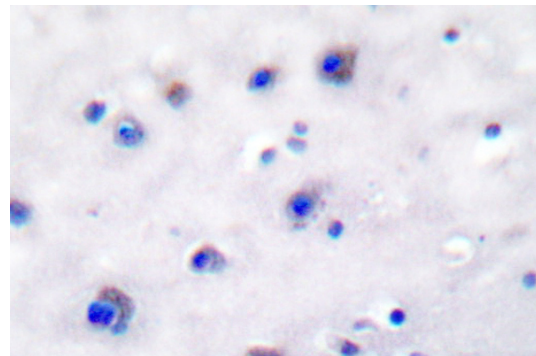
## AP06419PU-N

## Polyclonal Antibody to TrkB - Aff - Purified

<b>Alternate names:</b>	BDNF/NT-3 growth factors receptor, GP145-TrkB, NTRK2, Neurotrophic tyrosine kinase receptor type 2, TRKB, TrkB tyrosine kinase
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	1.0 mg/ml
<b>Background:</b>	The Trk proto-oncogene encodes a tyrosine protein kinase, Trk A, also designated Trk gp140, that serves as a receptor for certain neurotrophic factors including nerve growth factor (NGF) and neurotrophin-3 (NT-3). Trk B is a tyrosine kinase gene highly related to Trk A. Trk B expression is confined to tissues within the central and peripheral nervous systems. The brain-derived neurotrophic factor (BDNF) and NT-3, but not NGF, can induce rapid phosphorylation on tyrosine of Trk B gp145, one of the receptors encoded by Trk B, although BDNF elicits a response at least two orders of magnitude greater than NT-3. Thus it appears that Trk B gp145 may represent a neurotrophic receptor for BDNF and NT-3. The third member of the Trk family of tyrosine kinases, Trk C, encodes a protein designated Trk C gp145 that is preferentially expressed in brain tissue, is equally related to Trk A and Trk B, and is a functional receptor for NT-3.
<b>Uniprot ID:</b>	<a href="#">Q16620</a>
<b>NCBI:</b>	<a href="#">NP_001007098.1</a>
<b>GenelD:</b>	<a href="#">4915</a>
<b>Host:</b>	Rabbit
<b>Immunogen:</b>	Synthetic peptide, corresponding to amino acids 102-158 of Human Sarcoglycan-β.
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction <b>Purification:</b> Affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE) <b>Buffer System:</b> Phosphate buffered saline (PBS), pH 7.2. <b>Preservatives:</b> 0.05% sodium azide
<b>Applications:</b>	<b>Western blot:</b> 1/500-1/1000. <b>Immunohistochemistry on paraffin sections:</b> 1/50-1/200. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Molecular Weight:</b>	~ 92, 145 kDa
<b>Specificity:</b>	This antibody detects endogenous levels of Trk B protein. (region surrounding Val509)
<b>Species Reactivity:</b>	<b>Tested:</b> Human. <b>Expected from sequence similarity:</b> Mouse and Rat.
<b>Storage:</b>	Store 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.

**Pictures:**

**Immunohistochemistry (IHC)** analyzes of Trk B antibody (Cat.-No.: AP06419PU-N) in paraffin-embedded human brain tissue.



**Western blot (WB)** analysis of Trk B antibody (Cat.-No.: AP06419PU-N) in extracts from NIH/3T3 cells.

