

AP01712PU-N**Polyclonal Antibody to TrkB pTyr705 - Aff - Purified****Alternate names:**

BDNF/NT-3 growth factors receptor, GP145-TrkB, NTRK2, Neurotrophic tyrosine kinase receptor type 2, TRKB, TrkB tyrosine kinase

Quantity:

0.1 mg

Concentration:

1.0 mg/ml

Background:

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 neurotrophin-3 (NT-3).

Uniprot ID:

[Q16620](#)

NCBI:

[NP_001007098.1](#)

GenID:

[4915](#)

Host:

Rabbit

Immunogen:

Synthetic phosphopeptide derived from human Trk B around the phosphorylation site of Tyrosine 706.

Format:

State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE).

Purification: Affinity Chromatography using epitope-specific immunogen.

Buffer System: Phosphate buffered saline (PBS), pH~7.2 containing 0.05% Sodium Azide as preservative.

Applications:

Western Blot: 1/500-1/1000.

Immunohistochemistry on paraffin sections: 1/50-1/200.

Immunofluorescence: 1/50-1/200.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Molecular Weight:

~ 92 kDa, 140 kDa

Specificity:

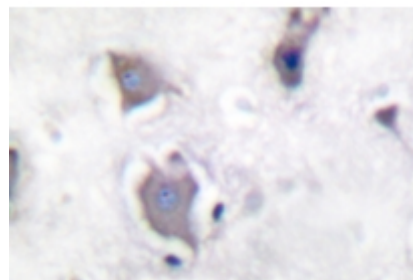
This antibody detects endogenous levels of TrkB pTyr706 protein.

Species: Human, Mouse and Rat.

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.

Pictures: Immunohistochemistry (IHC) analyzes of Trk-B pTyr705 antibody (Cat.-No.: AP01712PU-N) in paraffin-embedded human brain tissue.



Western blot (WB) analysis of Trk-B pTyr705 antibody (Cat.-No.: AP01712PU-N) in extracts from mouse kidney.

