

## Product datasheet for **AP09481PU-S**

### TrkB (NTRK2) pTyr515 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF
Recommended Dilution:	Immunofluorescence: 1/100~1/200.
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The antiserum was produced against synthesized phosphopeptide derived from Human TrkB around the phosphorylation site of Tyrosine 515 (P-Q-Y-pF-G).
Specificity:	Antibody AP09481PU detects endogenous levels of TrkB only when phosphorylated at Tyrosine 515.
Formulation:	PBS (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150 mM NaCl, 0.02% Sodium Azide and 50% Glycerol. State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Immunoaffinity Chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
Conjugation:	Unconjugated
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	neurotrophic receptor tyrosine kinase 2
Database Link:	<a href="#">Entrez Gene 25054 Rat</a> <a href="#">Entrez Gene 4915 Human</a> <a href="#">Q16620</a>



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**Background:**

Neurotrophins activate tyrosine kinase receptors of the Trk family (TrkA, TrkB and TrkC) and they all share a common low affinity receptor (p75NTR or p75). Although p75NTR does not appear to directly transduce NGF signals, this receptor appears to increase the responsiveness of the trk receptors and plays a role in the retrograde transport of neurotrophin signals from axon terminals to the cell body. The expression of trk gene neurotrophin receptors in mouse is tabulated by Barbacid (1994). NGF binds with high affinity and activates the TrkA tyrosine kinase receptor, which is apparently responsible for signal transduction. BDNF activates the TrkB tyrosine kinase receptor, which it shares with NT-4. NT-3 activates the TrkC tyrosine kinase receptor, but can also activate TrkA and TrkB receptors in certain cell systems. NT-4 primarily activates the TrkB tyrosine kinase receptor, which it shares with BDNF.

**Synonyms:**

TRKB, NTRK2

**Note:**

Molecular Weight: 140 kDa

**Protein Families:**

Druggable Genome, Protein Kinase, Transmembrane

**Protein Pathways:**

MAPK signaling pathway, Neurotrophin signaling pathway

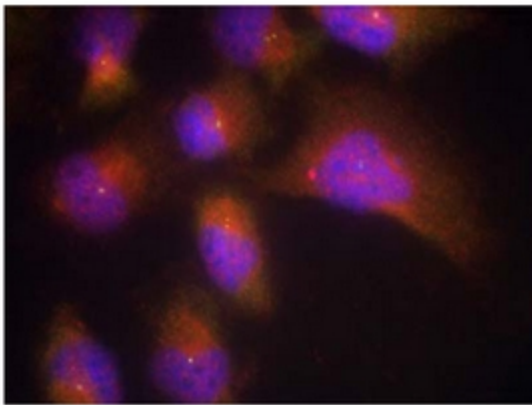
**Product images:**

Figure 1. Immunofluorescence staining of methanol-fixed HeLa cells using TRkB pTyr515 Antibody (Red).