

## Product datasheet for **AP09480PU-S**

### TrkA (NTRK1) pSer791 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF
Recommended Dilution:	Immunofluorescence: 1/100~1/200.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The antiserum was produced against synthesized phosphopeptide derived from human TrkA around the phosphorylation site of tyrosine791 (P-V-Yp-L-D).
Specificity:	Antibody AP09480PU detects endogenous levels of TrkA only when phosphorylated at Tyrosine 791.
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.
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 1
Database Link:	<a href="#">Entrez Gene 4914 Human P04629</a>



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**Background:**

The Trk proto-oncogene family contains four members, TrkA, TrkB, TrkC, and TrkE, which are variably expressed throughout the central and peripheral nervous systems. TrkA binds to nerve growth factor (NGF) and autophosphorylates on tyrosine residues (Tyr490, Tyr674, Tyr675, Tyr751 and Tyr785) to activate multiple downstream effector proteins. Phosphorylation at Tyr490 is required for Shc association and subsequent activation of the Ras-MAP kinase-signaling cascade, which leads to activation of Elk-1-dependent gene transcription and neurite growth. Phosphorylations at Tyr674 and Tyr675 lie within the catalytic domain of TrkA tyrosine kinase and reflect Trk kinase activity. Additionally, phosphorylation at Tyr751 is required for PI3-kinase association and activation of the Akt signaling cascade.

**Synonyms:**

NTRK1, TRK, Trk-A

**Protein Families:**

Druggable Genome, Protein Kinase, Transmembrane

**Protein Pathways:**

Apoptosis, Endocytosis, MAPK signaling pathway, Neurotrophin signaling pathway, Pathways in cancer, Thyroid cancer

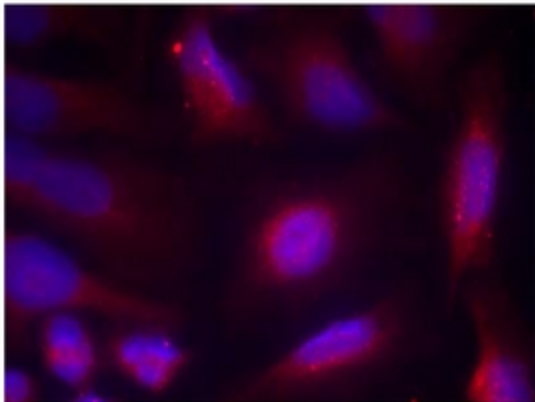
**Product images:**

Figure 1. Immunofluorescence staining of methanol-fixed HeLa cells using TrkA pSer791 Antibody (Red).