

## Product datasheet for **AP23416PU-N**

### TrkA (NTRK1) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	Western blot: 1 µg/ml.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthetic peptide corresponding to a sequence at the middle region of human Trk-A
Specificity:	This antibody detects TrkA (middle). No cross reactivity with other proteins.
Formulation:	5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg Na <sub>3</sub> N State: Aff - Purified State: Lyophilized Ig fraction
Reconstitution Method:	0.2ml of distilled water will yield a concentration of 500µg/ml.
Purification:	Immunogen affinity purified
Conjugation:	Unconjugated
Storage:	Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer. 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 18211 Mouse</a> <a href="#">Entrez Gene 59109 Rat</a> <a href="#">Entrez Gene 4914 Human P04629</a>



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<b>Background:</b>	<p>Trk A (Neurotrophic tyrosine kinase receptor A) is the high affinity catalytic receptor for the neurotrophin, Nerve Growth Factor (NGF). Higher affinity binding of NGFR can be achieved by association with higher molecular mass, low-affinity neurotrophin receptors, namely the tropomyosin receptor kinases, TRKA(NTRK1), TRKB (NTRK2), and TRKC (NTRK3). TRKA, TRKB, and TRKC are specific for or 'preferred by' NGF, NTF4(Neurotrophin-4) and BDNF, and NTF3(Neurotrophin-3), respectively. NTF3 also binds to TRKA and TRKB, but with significantly lower affinity. The absence of TrkA(NGFR) expression was associated with a strong increase in the Sp3 repressor short isoform(s) and a lack of the Sp3 activator long isoform. Sp3 is a bifunctional transcription factor that has been reported to stimulate or repress the transcription of numerous genes.<sup>1</sup> Indo et al. (1996) concluded that defects in TRKA cause CIPA (Congenital insensitivity to pain with anhidrosis) and that the NGF-TRKA system has a crucial role in the development and function of the nociceptive reception as well as establishment of thermoregulation via sweating in humans. These results also implicate genes encoding other TRK and neurotrophin family members as candidates for developmental defect(s) of the nervous system.</p>
<b>Synonyms:</b>	NTRK1, TRK, Trk-A
<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Transmembrane
<b>Protein Pathways:</b>	Apoptosis, Endocytosis, MAPK signaling pathway, Neurotrophin signaling pathway, Pathways in cancer, Thyroid cancer