

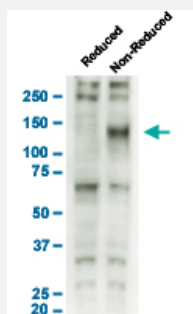
NTRK1 polyclonal antibody

Catalog # PAB14332

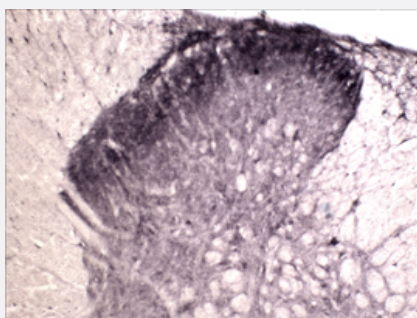
Size 100 uL

Applications

Western Blot (Cell lysate)

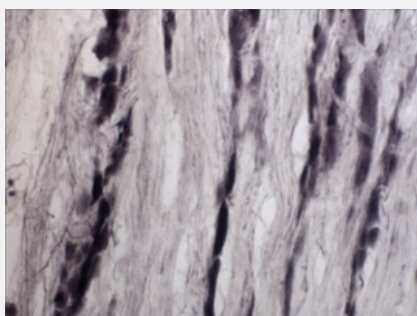


Western Blot analysis of human neuroblastoma SH-SY5Y cell lysate (30 ug/lane). This antibody detects TrkA full-length protein at 130-140 kDa under non-reducing conditions (no DTT or beta-mercaptoethanol!). Higher molecular-weight bands may represent homodimeric forms of TrkA or heterodimeric TrkA-receptor complexes. The identity of lower molecular weight bands is unknown. SDS-PAGE: denatured and non-reducing; Transfer: Tris-Glycine buffer; Membrane: nitrocellulose (0.45 um); Blocking: 5% skim milk in TBST, 1 hour at RT; Primary antibody: overnight at 4°C (1/2500 dilution); Secondary antibody: anti-rabbit-HRP (1/6000) 2 hours at RT; Detection: Chemiluminescence. Predicted MW of human TrkA based on amino acid sequence: 84 kDa. The observed MW differs due to post-translational modification, mainly glycosylation.



Immunohistochemistry (Frozen sections)

Immunohistochemical staining of Tyrosine Kinase Receptor A (TrkA) in rat spinal cord (free floating cryostat section) using NTRK1 polyclonal antibody (Cat # PAB14332) at a dilution of 1 in 2000. Courtesy of Professor Xin Fu Zhou, The Flinders University of South Australia.



Immunohistochemistry (Frozen sections)

Immunohistochemical staining of Tyrosine Kinase Receptor A (TrkA) in rat trigeminal nerve (free floating cryostat section) using NTRK1 polyclonal antibody (Cat # PAB14332) at a dilution of 1 in 2000. Courtesy of Professor Xin Fu Zhou, The Flinders University of South Australia.

Specification

Product Description	Rabbit polyclonal antibody raised against partial NTRK1.
Immunogen	Glycosylated human extracellular domain NTRK1.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	Specificity was demonstrated by immunohistochemistry. When used for immunohistochemistry in rat dorsal root ganglia, staining is restricted to the known distribution of TrkA, that is in small, nociceptive neurons.
Form	Lyophilized
Purity	Whole serum
Recommend Usage	ELISA (1:5000) Immunohistochemistry (1:1000) Western Blotting (1:1000-1:2500) The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from PBS
Storage Instruction	Store at 4°C for short term. Store at -20°C on dry atmosphere for long term. After reconstitution with 100 uL of sterile water, store at -20°C. Aliquot to avoid repeated freezing and thawing.

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — NTRK1

Entrez GeneID [4914](#)

Protein Accession# [P04629](#)

Gene Name NTRK1

Gene Alias DKFZp781I14186, MTC, TRK, TRK1, TRKA, p140-TrkA

Gene Description neurotrophic tyrosine kinase, receptor, type 1

Omim ID [155240](#) [191315](#) [256800](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes a member of the neurotrophic tyrosine kinase receptor (NTRK) family. This kinase is a membrane-bound receptor that, upon neurotrophin binding, phosphorylates itself and members of the MAPK pathway. The presence of this kinase leads to cell differentiation and may play a role in specifying sensory neuron subtypes. Mutations in this gene have been associated with congenital insensitivity to pain, anhidrosis, self-mutilating behavior, mental retardation and cancer. Alternate transcriptional splice variants of this gene have been found, but only three have been characterized to date. [provided by RefSeq]

Other Designations OTTHUMP00000038736|Oncogene TRK|high affinity nerve growth factor receptor|tyrosine kinase receptor A

Publication Reference

- [Expression of Trk receptors in otolith-related neurons in the vestibular nucleus of rats.](#)

Zhang FX, Lai CH, Tse YC, Shum DK, Chan YS.

Brain Research 2005 Nov; 1062(1-2):92.

Application: IF, IHC, Rat, Otolith-related neurons in the vestibular nucleus

- [ELISA methods to measure cholinergic markers and nerve growth factor receptors in cortex, hippocampus, prefrontal cortex, and basal forebrain from rat brain.](#)

Gearhart DA, Middlemore ML, Terry AV.

Journal of Neuroscience Methods 2006 Jan; 150(2):159.

Application: ELISA, WB, Rat, Brain extracted

Pathway

- [Apoptosis](#)
- [Endocytosis](#)
- [MAPK signaling pathway](#)
- [Neurotrophin signaling pathway](#)
- [Pathways in cancer](#)
- [Thyroid cancer](#)

Disease

- [Alzheimer disease](#)
- [Asperger Syndrome](#)
- [Autistic Disorder](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
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- [Eating Disorders](#)
- [Edema](#)
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- [Kidney Failure](#)
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