Product Datasheet

TrkA Rabbit mAb

Catalog No: #48828

Package Size: #48828-1 50ul #48828-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	TrkA Rabbit mAb
Clone No.	JJ084-04
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP, FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Other Names	gp140trk antibody High affinity nerve growth factor receptor antibody High affinity nerve growth factor receptor precursor antibody MTC antibody Neurotrophic tyrosine kinase receptor type 1 antibody NTRK1 antibody NTRK1_HUMAN antibody Oncogene TRK antibody p14-TrkA antibody p140 TrkA antibody p140-TrkA antibody Slow nerve growth antibody Trk A antibody TRK antibody Trk-A antibody TRK1 antibody TRK1-transforming tyrosine kinase protein antibody Tropomyosin-related kinase A antibody Tyrosine kinase receptor A antibody Tyrosine kinase receptor antibody
Accession No.	Swiss-Prot#:P04629
Uniprot	P04629
GeneID	4914;
Calculated MW	145 kDa
Concentration	0.85 mg/ml
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

Application Details

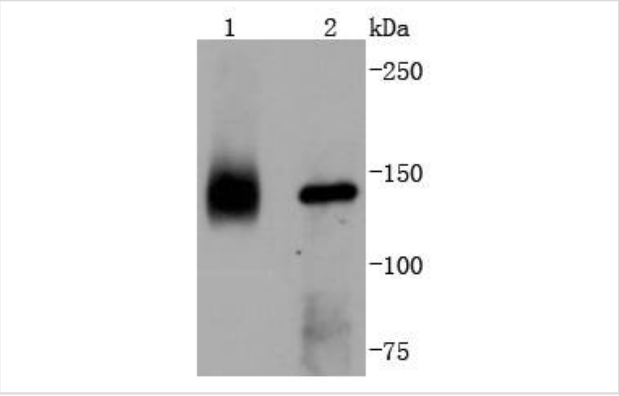
WB: 1:1,000-1:2,000

IHC: 1:50-1:200

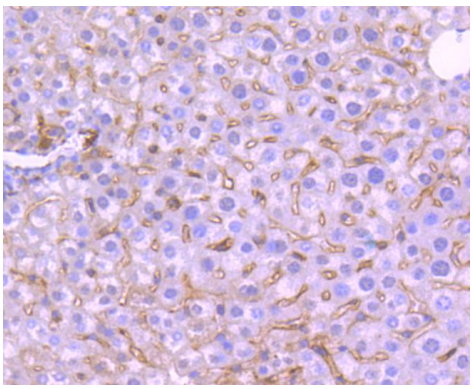
ICC: 1:50-1:200

FC: 1:50-1:100

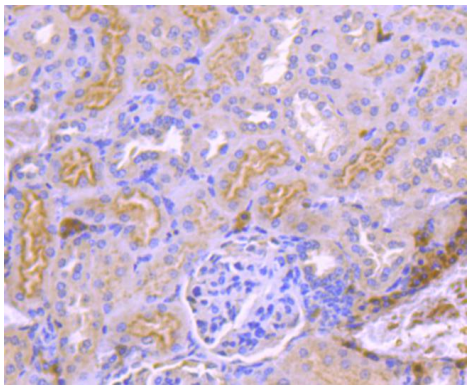
Images



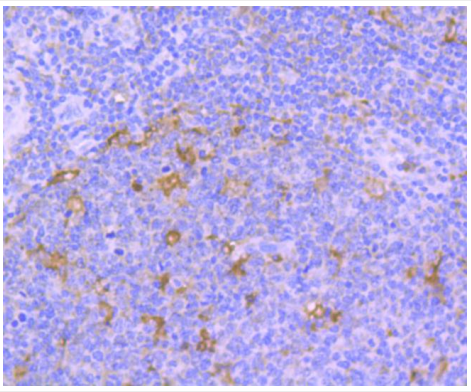
Western blot analysis of TrkA on different lysates using anti-TrkA antibody at 1/1,000 dilution. Positive control: Lane 1: Mouse brain Lane 2: SH-SY-5Y



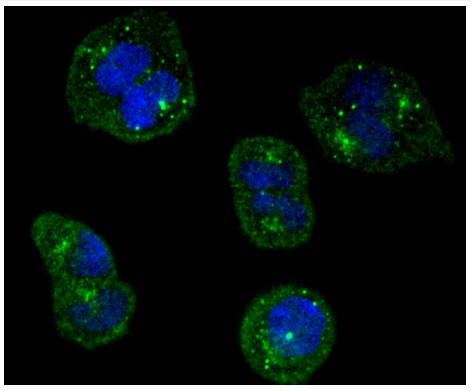
Immunohistochemical analysis of paraffin-embedded mouse liver tissue using anti-TrkA antibody. Counter stained with hematoxylin.



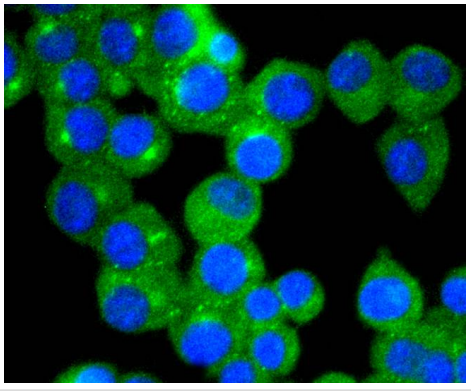
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-TrkA antibody. Counter stained with hematoxylin.



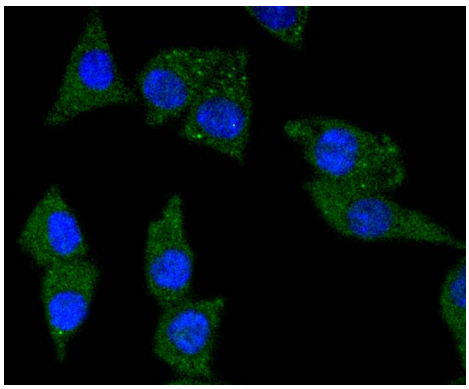
Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-TrkA antibody. Counter stained with hematoxylin.



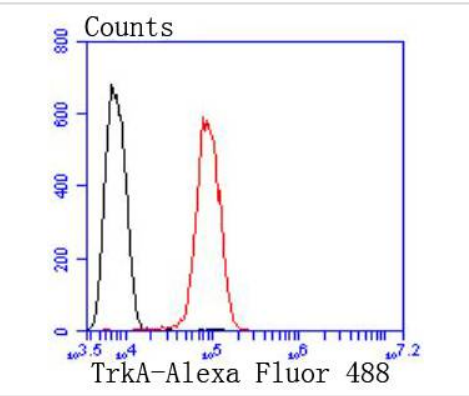
ICC staining TrkA in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining TrkA in N2A cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining TrkA in SH-SY-5Y cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of SH-SY-5Y cells with TrkA antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

Background

The family of Trk receptor tyrosine kinases consists of TrkA, TrkB, and TrkC. While the sequence of these family members is highly conserved, they are activated by different neurotrophins: TrkA by NGF, TrkB by BDNF or NT4, and TrkC by NT3. Neurotrophin signaling through these receptors regulates a number of physiological processes, such as cell survival, proliferation, neural development, and axon and dendrite growth and patterning. In the adult nervous system, the Trk receptors regulate synaptic strength and plasticity. TrkA regulates proliferation and is important for development and maturation of the nervous system. Point mutations, deletions, and chromosomal rearrangements (chimeras) cause ligand-independent receptor dimerization and activation of TrkA. TrkA is activated in many malignancies including breast, ovarian, prostate, and thyroid carcinomas. Research studies suggest that expression of TrkA in neuroblastomas may be a good prognostic marker as TrkA signals growth arrest and differentiation of cells originating from the neural crest.

Note: This product is for in vitro research use only