Product Datasheet

TrkA+B+C Rabbit mAb

Catalog No: #49223

Package Size: #49223-1 50ul #49223-2 100ul

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

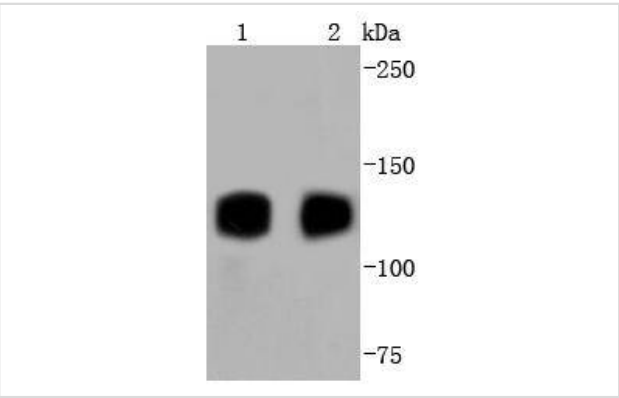
Description

Product Name	TrkA+B+C Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal
Clone No.	JJ084-04
Purification	ProA affinity purified
Applications	WB, ICC, IHC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	BDNF/NT-3 growth factors receptor antibody gp140trk antibody GP145-TrkB antibody GP145-TrkC antibody High affinity nerve growth factor receptor antibody MTC antibody Neurotrophic tyrosine kinase receptor type 1 antibody Neurotrophic tyrosine kinase receptor type 2 antibody Neurotrophic tyrosine kinase receptor type 3 antibody NT-3 growth factor receptor antibody NTRK1 antibody NTRK2 antibody NTRK3 antibody p140-TrkA antibody TRK antibody Trk-A antibody Trk-B antibody Trk-C antibody TRK1-transforming tyrosine kinase protein antibody TRKA antibody TRKB antibody TrkB tyrosine kinase antibody TRKC antibody TrkC tyrosine kinase antibody Tropomyosin-related kinase A antibody Tropomyosin-related kinase B antibody Tyrosine kinase receptor A antibody Tyrosine kinase receptor antibody
Accession No.	Swiss-Prot#:P04629
Calculated MW	140 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

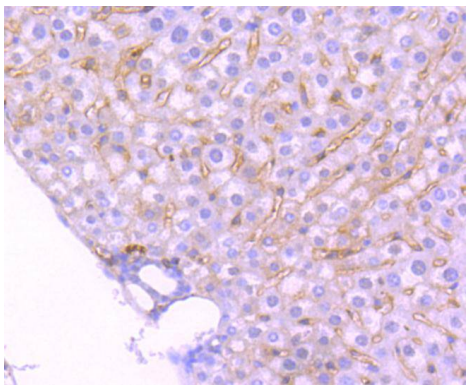
Application Details

WB: 1:1,000-5,000IHC: 1:50-1:200ICC: 1:50-1:200

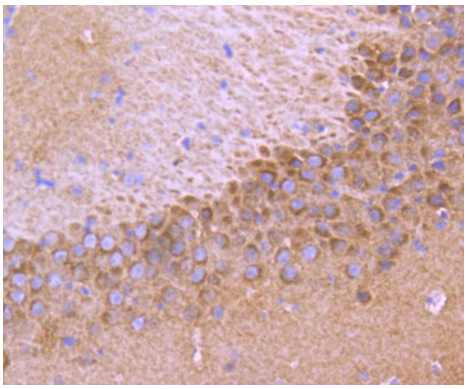
Images



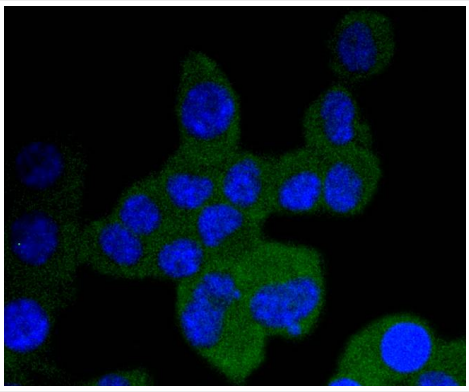
Western blot analysis of TrkA+B+C on different lysates using anti-TrkA+B+C antibody at 1/1,000 dilution. Positive control:
Lane 1: Rat brain Lane 2: Mouse brain



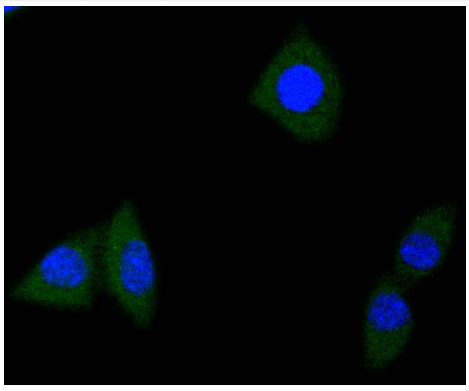
Immunohistochemical analysis of paraffin-embedded mouse liver tissue using anti-TrkA+B+C antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-TrkA+B+C antibody. Counter stained with hematoxylin.



ICC staining TrkA+B+C 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+B+C 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.

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. 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. TrkB is overexpressed in tumors such as neuroblastoma, prostate adenocarcinoma and pancreatic ductal adenocarcinoma. In neuroblastomas overexpression of TrkB correlates with unfavorable disease outcome when autocrine loops signaling tumor survival are potentiated by additional overexpression of brain-derived neurotrophic factor (BDNF). An

alternatively spliced truncated TrkB isoform lacking the kinase domain is overexpressed in Wilms tumors and this isoform may act as a dominant-negative to TrkB signaling. Altered TrkC expression and corresponding gene mutations are seen in various forms of cancer, with increased expression a positive prognostic indicator in patients with medulloblastoma.

References

Note: This product is for in vitro research use only and is not intended for use in humans or animals.