

Datasheet for ABIN3031990

anti-TRKA antibody**5** Images[Go to Product page](#)

Overview

Quantity:	0.4 mL
Target:	TRKA (NTRK1)
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TRKA antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Flow Cytometry (FACS)

Product Details

Immunogen:	This TrkA antibody was produced from rabbits immunized with TrkA his fusion protein
Isotype:	Ig Fraction
Purification:	Purified

Target Details

Target:	TRKA (NTRK1)
Alternative Name:	TrkA (NTRK1 Products)
Background:	TrkA is a receptor tyrosine kinase involved in the development and the maturation of the central and peripheral nervous systems through regulation of proliferation, differentiation and survival of sympathetic and nervous neurons. High affinity receptor for NGF which is its primary ligand, it can also bind and be activated by NTF3/neurotrophin-3. However, NTF3 only supports axonal extension through NTRK1 but has no effect on neuron survival. Upon dimeric NGF ligand-

Target Details

binding, undergoes homodimerization, autophosphorylation and activation. Recruits, phosphorylates and/or activates several downstream effectors including SHC1, FRS2, SH2B1, SH2B2 and PLCG1 that regulate distinct overlapping signaling cascades driving cell survival and differentiation. Through SHC1 and FRS2 activates a GRB2-Ras-MAPK cascade that regulates cell differentiation and survival. Through PLCG1 controls NF-Kappa-B activation and the transcription of genes involved in cell survival. Through SHC1 and SH2B1 controls a Ras-PI3 kinase-AKT1 signaling cascade that is also regulating survival. In absence of ligand and activation, may promote cell death, making the survival of neurons dependent on trophic factors. [UniProt]

UniProt: [P04629](#)

Pathways: [RTK Signaling](#), [Neurotrophin Signaling Pathway](#), [cAMP Metabolic Process](#)

Application Details

Application Notes: Titration of the TrkA antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 1:1000,Flow Cytometry: 1:10-1:50,Immunofluorescence: 1:10-1:50

Restrictions: For Research Use only

Handling

Format: Liquid

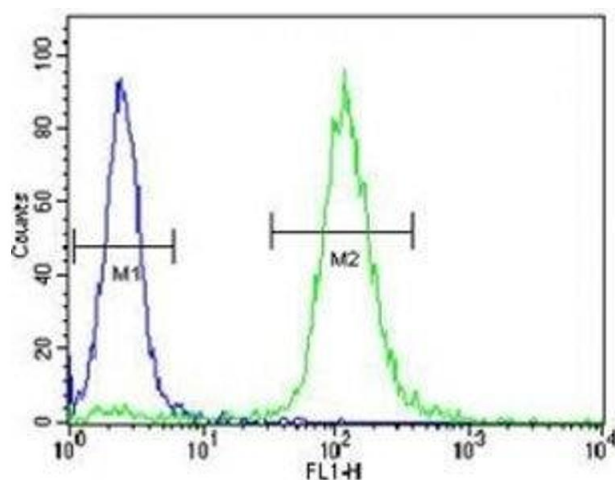
Buffer: In 1X PBS, pH 7.4, with 0.09 % sodium azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

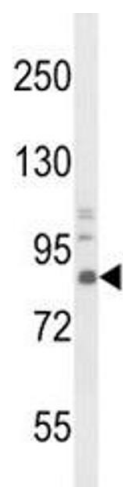
Storage: -20 °C

Storage Comment: Aliquot the TrkA antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.



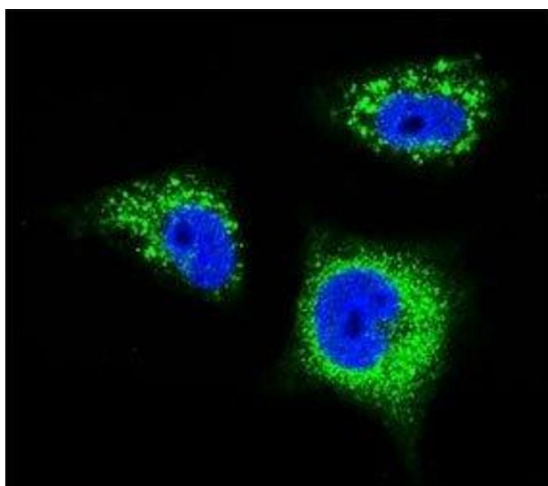
Flow Cytometry

Image 1. TrkA antibody flow cytometric analysis of WiDr cells (green) compared to a negative control (blue). FITC-conjugated goat-anti-rabbit secondary Ab was used for the analysis.



Western Blotting

Image 2. Western blot analysis of TrkA antibody and mouse brain tissue lysate. Observed molecular weight: 85~140 kDa depending on glycosylation level.



Immunofluorescence

Image 3. Confocal immunofluorescent analysis of TrkA antibody with MDA-MB231 cells followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used as a nuclear counterstain (blue).

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3031990.