

Datasheet for ABIN7139049
anti-TRKA antibody (pTyr701)



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2 Images

Overview

Quantity:	100 µL
Target:	TRKA (NTRK1)
Binding Specificity:	pTyr701
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TRKA antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	Peptide sequence around phosphorylation site of tyrosine 701 (I-L-Y(p)-R-K) derived from Human Trk A.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using

Target Details

Target:	TRKA (NTRK1)
Alternative Name:	NTRK1 (NTRK1 Products)

Target Details

Background:	<p>Background: 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-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.</p> <p>Aliases: 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</p>
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UniProt:	P04629
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Pathways:	RTK Signaling , Neurotrophin Signaling Pathway , cAMP Metabolic Process
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Application Details

Application Notes:	WB:1:500-1:3000, IHC:1:50-1:100,
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
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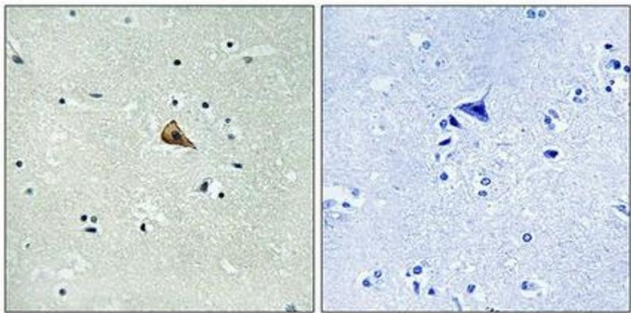
Buffer:	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
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Preservative:	Sodium azide
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Handling

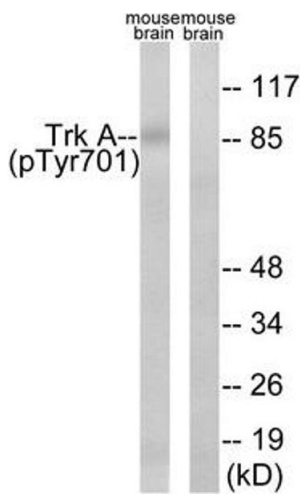
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Immunohistochemistry

Image 1. Immunohistochemistry analysis of paraffin-embedded human brain tissue using Trk A (Phospho-Tyr701) antibody. The picture on the right is treated with the synthesized peptide.



Western Blotting

Image 2. Western blot analysis of extracts from mouse brain cells, using Trk A (Phospho-Tyr701) antibody. The lane on the right is treated with the synthesized peptide.