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anti-TRKB antibody (C-Term)

Images



Publications



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Quantity:	100 μL	
Target:	TRKB (NTRK2)	
Binding Specificity:	C-Term	
Reactivity:	Human, Rat, Mouse	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This TRKB antibody is un-conjugated	
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC)	
Product Details		

Immunogen:	A synthesized peptide derived from human Trk B, corresponding to a region within C-terminal amino acids.	
Isotype:	IgG	
Specificity:	Trk B Antibody detects endogenous levels of total Trk B.	
Predicted Reactivity:	Horse,Sheep,Rabbit,Chicken	
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink TM Coupling Resin (Thermo Fisher Scientific).	

Target Details

Target: TRKB (NTRK2)

Target Details

Description: Receptor tyrosine kinase involved in the development and the maturation of the central and the peripheral nervous systems through regulation of neuron survival, proliferation,	
central and the narinharal naryous evetems through regulation of nouron curvival proliferation	
central and the peripheral hervous systems through regulation of heuron survival, profileration,	
migration, differentiation, and synapse formation and plasticity. Receptor for BDNF/brain-	
derived neurotrophic factor and NTF4/neurotrophin-4. Alternatively can also bind	
NTF3/neurotrophin-3 which is less efficient in activating the receptor but regulates neuron	
survival through NTRK2. Upon 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. Through SHC1, FRS2, SH2B1, SH2B2 activates the GRB2-Ras-	
MAPK cascade that regulates for instance neuronal differentiation including neurite outgrowth	
Through the same effectors controls the Ras-PI3 kinase-AKT1 signaling cascade that mainly	
regulates growth and survival. Through PLCG1 and the downstream protein kinase C-regulated	
pathways controls synaptic plasticity. Thereby, plays a role in learning and memory by	
regulating both short term synaptic function and long-term potentiation. PLCG1 also leads to	
NF-Kappa-B activation and the transcription of genes involved in cell survival. Hence, it is able	
to suppress anoikis, the apoptosis resulting from loss of cell-matrix interactions. May also play	
a role in neutrophin-dependent calcium signaling in glial cells and mediate communication	
between neurons and glia.	
Gene: NTRK2	
145kDa	
4915	
Q16620	
RTK Signaling, Neurotrophin Signaling Pathway, cAMP Metabolic Process, Skeletal Muscle	
Fiber Development, Feeding Behaviour, Dicarboxylic Acid Transport	
WB 1:500-2000, IHC 1:50-1:200, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000	
For Research Use only	
mat: Liquid	

Handling

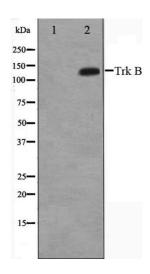
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 $\%$ sodium azide and 50 $\%$ glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

Publications

Product cited in:

Liu, Liu, Yu, Lin, Chu, Deng, Yan, Li, Yao: "Systematic analysis of mRNA expression profiles in NSCLC cell lines to screen metastasis-related genes." in: **Molecular medicine reports**, Vol. 14, Issue 6, pp. 5093-5103, (2017) (PubMed).

Images



Western Blotting

Image 1. Western blot analysis of Trk B expression in HepG2 whole cell lysates,The lane on the left is treated with the antigen-specific peptide.



Immunofluorescence (fixed cells)

Image 2. ABIN6269377 staining NIH-3T3 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody(Cat.# S0006), diluted at 1/600, was used as secondary antibody.