

Rabbit TrkB Polyclonal Antibody | anti-TrkB antibody

TrkB Antibody FITC Conjugated

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA312988	Rabbit	Human, Mouse, Rat	Flow Cytometry, Functional Assay, Immunofluorescence

PRODUCT SYNONYMS

TrkB; Polyclonal Antibody; TrkB Antibody FITC Conjugated; TRKB; trk-B; GP145-TrkB; BDNF NT-3 growth factors receptor; Neurotrophic tyrosine kinase receptor type 2; TrkB tyrosine kinase; Tropomyosin-related kinase B; NTRK2; anti-TrkB antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Purified by Protein A
Form/Format	0.01M TBS (pH 7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-TrkB antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence)
Conjugation	FITC
Excitation Emission	494nm 518nm
Immunogen	KLH conjugated synthetic peptide aa 370-429 822 derived from rat TrkB
Cell Localization	Extracellular
Preparation and Storage	Store at -20 degree C for one year. Avoid repeated freeze/thaw cycles

ADDITIONAL INFORMATION

Related Product Information for anti-TrkB antibody	Receptor tyrosine kinase involved in the development and the maturation of the central and the peripheral nervous systems through regulation of neuron survival, proliferation, 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 neurotrophin-dependent calcium signaling in glial cells and mediate communication between neurons and glia.
Product Categories/Family for anti-TrkB antibody	Conjugated Primary Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	55956790
NCBI GeneID	4915
NCBI Accession #	NP_001007098.1
NCBI GenBank Nucleotide #	NM_001007097.1
UniProt Accession #	Q16620; Q16675; Q59GJ1; Q8WXJ5; Q8WXJ6; Q8WXJ7; B1ANZ4; B4DFV9
NCBI Official Full Name	BDNF/NT-3 growth factors receptor isoform b
NCBI Official Synonym Full Names	neurotrophic tyrosine kinase, receptor, type 2
NCBI Official Symbol	NTRK2
NCBI Official Synonym Symbols	TRKB; trk-B; GP145-TrkB
NCBI Protein Information	BDNF/NT-3 growth factors receptor; trkB tyrosine kinase; tyrosine kinase receptor B; tropomyosin-related kinase B; BDNF-tropomyosine receptor kinase B
UniProt Protein Name	BDNF/NT-3 growth factors receptor
UniProt Gene Name	NTRK2
UniProt Synonym Gene Names	TRKB; Trk-B
UniProt Entry Name	NTRK2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/trkb-antibody-flow-cytometry-immunofluorescence-elisa/312988>