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Datasheet for ABIN7145333
anti-TRKB antibody (AA 32-282)

2 Images

Overview

Quantity:	100 µL
Target:	TRKB (NTRK2)
Binding Specificity:	AA 32-282
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TRKB antibody is un-conjugated
Application:	Immunohistochemistry (IHC), ELISA

Product Details

Immunogen:	Recombinant Human BDNF/NT-3 growth factors receptor protein (32-282AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	Antigen Affinity Purified

Target Details

Target:	TRKB (NTRK2)
Alternative Name:	NTRK2 (NTRK2 Products)
Background:	Background: Receptor tyrosine kinase involved in the development and the maturation of the central and the peripheral nervous systems through regulation of neuron survival, proliferation,

Target Details

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.

Aliases: AI848316 antibody, BDNF tropomyosine receptor kinase B antibody, BDNF/NT 3 growth factors receptor antibody, BDNF/NT-3 growth factors receptor antibody, Brain derived neurotrophic factor receptor antibody, C030027L06Rik antibody, EC 2.7.10.1 antibody, GP145 TrkB antibody, GP145-TrkB antibody, GP145-TrkB/GP95-TrkB antibody, GP95 TrkB antibody, Neurotrophic receptor tyrosine kinase 2 antibody, Neurotrophic tyrosine kinase receptor type 2 antibody, Neurotrophin receptor tyrosine kinase type 2 antibody, NTRK 2 antibody, Ntrk2 antibody, NTRK2_HUMAN antibody, Obesity, hyperphagia, and developmental delay, included antibody, RATTRKB1 antibody, Trkb antibody, Trk B antibody, Trk-B antibody, TRKB antibody, TrkB tyrosine kinase antibody, TRKB1 antibody, Tropomyosin related kinase B antibody, tyrosine kinase receptor B antibody, Tyrosine receptor kinase B antibody

UniProt: [Q16620](#)

Pathways: [RTK Signaling](#), [Neurotrophin Signaling Pathway](#), [cAMP Metabolic Process](#), [Skeletal Muscle Fiber Development](#), [Feeding Behaviour](#), [Dicarboxylic Acid Transport](#)

Application Details

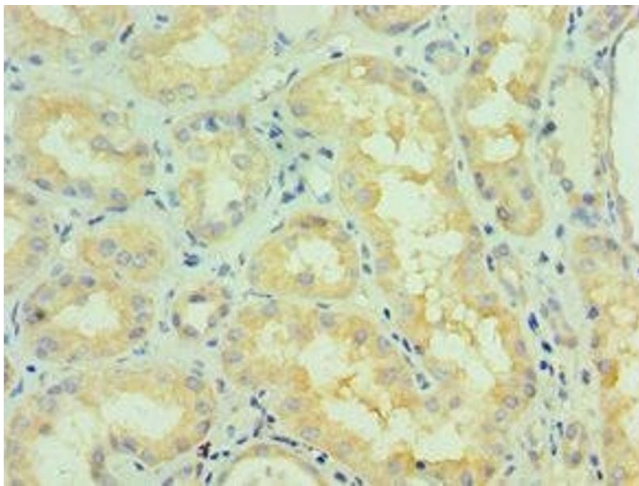
Application Notes: Recommended dilution: IHC:1:20-1:200,

Restrictions: For Research Use only

Handling

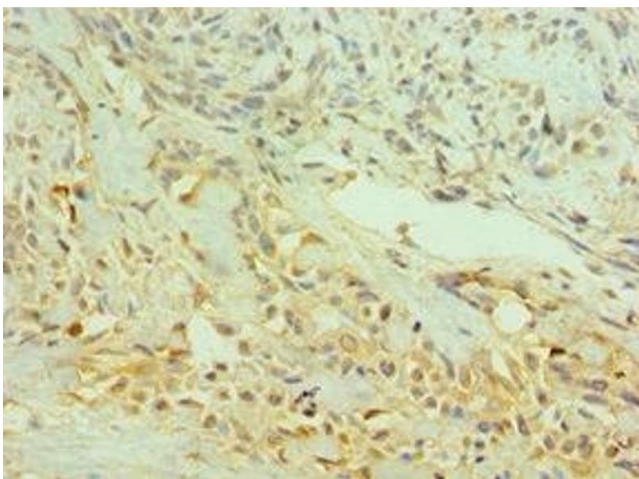
Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human kidney tissue using ABIN7145333 at dilution of 1:100



Immunohistochemistry

Image 2. Immunohistochemistry of paraffin-embedded human breast cancer using ABIN7145333 at dilution of 1:100