

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



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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 ( <a href="#">NTRK2 Products</a> )
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, Tkrb 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:	<a href="#">Q16620</a>
Pathways:	<a href="#">RTK Signaling</a> , <a href="#">Neurotrophin Signaling Pathway</a> , <a href="#">cAMP Metabolic Process</a> , <a href="#">Skeletal Muscle Fiber Development</a> , <a href="#">Feeding Behaviour</a> , <a href="#">Dicarboxylic Acid Transport</a>

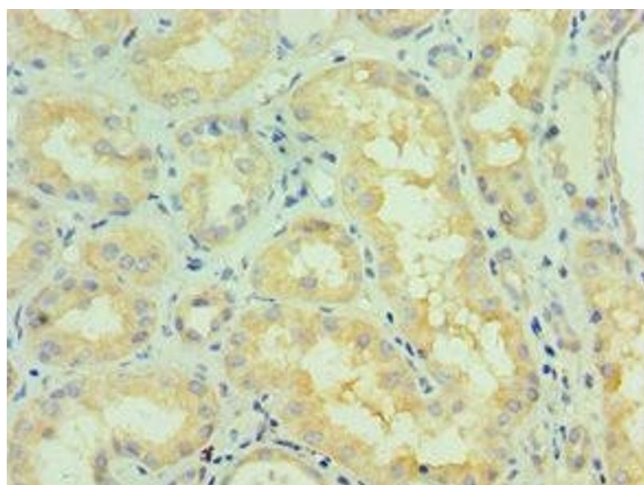
## Application Details

Application Notes:	Recommended dilution: IHC:1:20-1:200,
Restrictions:	For Research Use only

## Handling

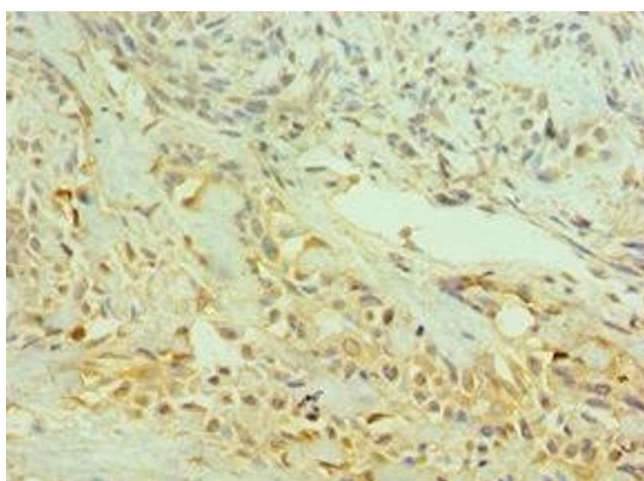
Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store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