TrkB(Phospho-Y817) Rabbit mAb

Catalog No: #13384

Package Size: #13384-1 50ul #13384-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	TrkB(Phospho-Y817) Rabbit mAb
Host Species	Rabbit
Clonality	Monoclonal
Clone No.	SC0556
Purification	ProA affinity purified
Applications	WB;ICC/IF;IHC
Species Reactivity	Human;Mouse;Rat
Immunogen Description	Synthetic phospho-peptide corresponding to residues surrounding Tyr817 of human TrkB.
Conjugates	Unconjugated
Accession No.	Swiss-Prot#:Q16620
Calculated MW	145 kDa
SDS-PAGE MW	140 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

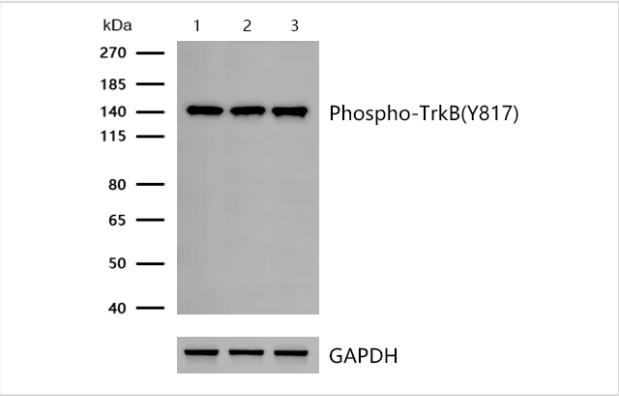
Application Details

WB: 1:500-1:2000

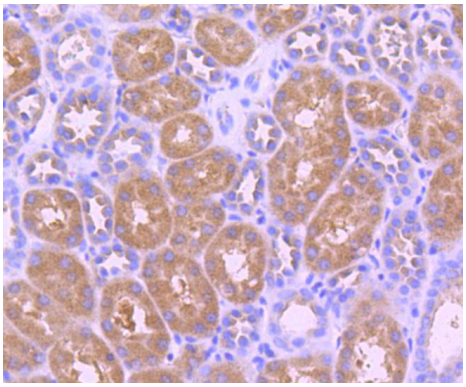
ICC/IF: 1:50-1:200

IHC: 1:50-1:200

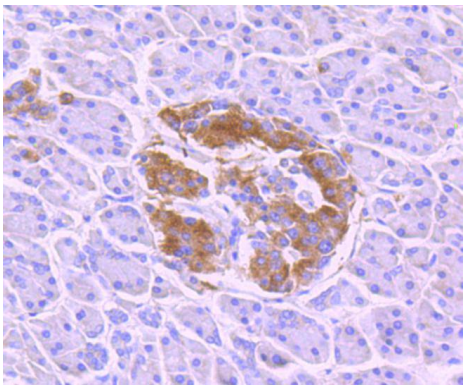
Images



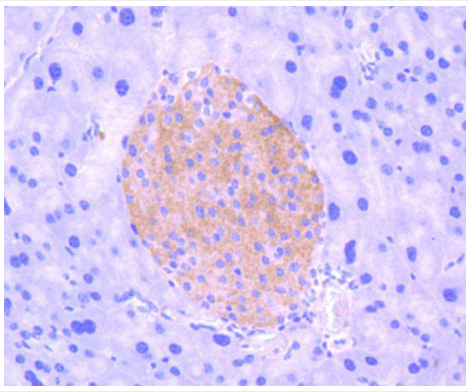
All lanes : TrkB(Phospho-Y817) Rabbit mAb at 1/1k dilutionLane 1 : SH-SY5Y whole cell lysates Lane 2 : Mouse brain tissue lysates Lane 3 : Rat brain tissue lysates Lysates/proteins at 20 µg per lane.SecondaryAll lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilutionPredicted band size: 145 kDa Observed band size: 140 kDaExposure time: 12 seconds



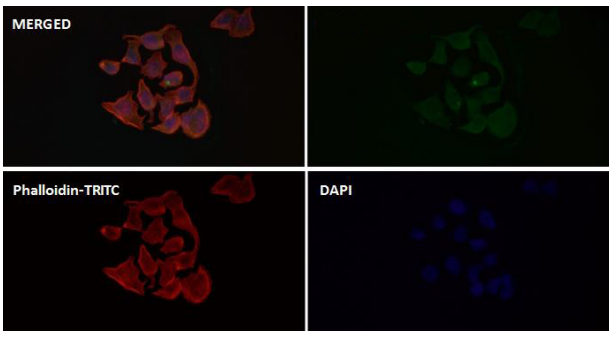
Formalin-fixed;paraffin-embedded human kidney tissue stained for TrkB (Phospho-Y817) using 13384 at 1/100 dilution in immunohistochemical analysis.



Formalin-fixed;paraffin-embedded human pancreas tissue stained for TrkB (Phospho-Y817) using 13384 at 1/100 dilution in immunohistochemical analysis.



Formalin-fixed;paraffin-embedded mouse pancreas tissue stained for TrkB (Phospho-Y817) using 13384 at 1/100 dilution in immunohistochemical analysis.



Immunocytochemistry/ Immunofluorescence TrkB(Phospho-Y817) antibody ICC/IF staining of TrkB(Phospho-Y817) in HeLa cells. Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100. Samples were incubated with antibody at a working dilution of 1/100. The secondary antibody was Alexa FluorB 488 goat anti rabbit, used at a dilution of 1/500. The cells were incubated 30 minutes at room temperature with phalloidin tritc . Nuclei were counterstained with DAPI.

Background

The Trk proto-oncogene encodes a tyrosine protein kinase, Trk A, also designated Trk gp140, that serves as a receptor for certain neurotrophic factors including nerve growth factor (NGF) and neurotrophin-3 (NT-3). Trk B is a tyrosine kinase gene highly related to Trk A. Trk B expression is confined to tissues within the central and peripheral nervous systems. The brain-derived neurotrophic factor (BDNF) and NT-3, but not NGF, can induce rapid phosphorylation on tyrosine of Trk B gp145, one of the receptors encoded by NTRK2, although BDNF elicits a response at least two orders of magnitude greater than NT-3. Thus it appears that Trk B gp145 may represent a neurotrophic receptor for BDNF and NT-3. The third member of the Trk family of tyrosine kinases, Trk C, encodes a protein designated Trk C gp145 that is preferentially expressed in brain tissue, is equally related to Trk A and Trk B and is a functional receptor for NT-3.

References

1. Nannini M et al. Integrated genomic study of quadruple-WT GIST (KIT/PDGFRA/SDH/RAS pathway wild-type GIST). BMC Cancer 14:685 (2014).
2. Zhang HH et al. The BDNF/TrkB signaling pathway is involved in heat hyperalgesia mediated by Cdk5 in rats. PLoS One 9:e85536 (2014).

Published Papers

Zhang Qin, Liu Jiayi, Wu Bingfeng, Yuan Ying, Gong Ping, Xiang Lin el at., Lysophosphatidic acid-induced YAP activation regulates osteogenesis of MC3T3-E1, Tissue & cell, (2025)

PMID:40902513

Note: This product is for in vitro research use only and is not intended for use in humans or animals.