TrkB (Phospho-Tyr705) Rabbit mAb

Catalog No: #52705

Package Size: #52705-1 50ul #52705-2 100ul

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

Description

Product Name	TrkB (Phospho-Tyr705) Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	S04-6B1
Isotype	IgG
Purification	Affinity Purified
Applications	WB;ICC/IF;IHC
Species Reactivity	Human;Mouse;Rat
Immunogen Description	A synthetic phosphopeptide corresponding to residues surrounding Tyr705 of human TrkB
Conjugates	Unconjugated
Modification	Phosphorylated
Other Names	OBHD; TRKB; trk-B; EIEE58; GP145-TrkB
Accession No.	Swiss-Prot:Q16620GeneID:4915
Calculated MW	92 kDa
SDS-PAGE MW	140 kDa
Formulation	50nM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

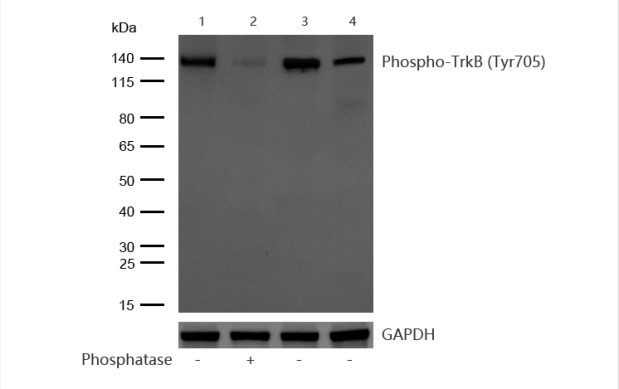
Application Details

WB: 1:500-1:2000

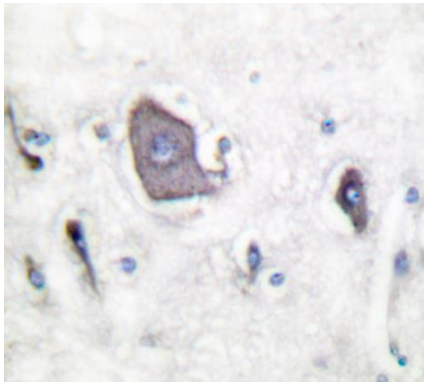
ICC/IF: 1:50-1:200

IHC: 1:50-1:200

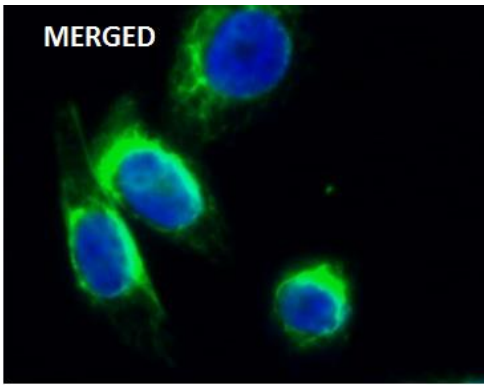
Images



All lanes : TrkB (Phospho-Tyr705) Rabbit mAb at 1/1k dilutionLane 1 : Hela whole cell lysatesLane 2 : Hela treated with Lambda Protein Phosphatase for 30min whole cellLane 3 : 3T3 whole cell lysatesLane 4 : C6 whole cell lysatesLysates/proteins at 20 µg per lane.SecondaryAll lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilutionPredicted band size: 92 kDa Observed band size: 140 kDaExposure time: 7 seconds



Formalin-fixed;paraffin-embedded human brain tissue stained for TrkB (Phospho-Tyr705) using 52705 at 1/100 dilution in immunohistochemical analysis.



Immunocytochemistry/ Immunofluorescence TrkB (Phospho-Tyr705) antibody (52705)
ICC/IF staining of TrkB (Phospho-Tyr705) in Hela cells. Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100.
Samples were incubated with 52705 at a working dilution of 1/100. The secondary antibody was Alexa FluorB 488 goat anti rabbit;used at a dilution of 1/500.
Nuclei were counterstained with DAPI.

Background

This gene encodes a member of the neurotrophic tyrosine receptor kinase (NTRK) family. This kinase is a membrane-bound receptor that, upon neurotrophin binding, phosphorylates itself and members of the MAPK pathway. Signalling through this kinase leads to cell differentiation. Mutations in this gene have been associated with obesity and mood disorders. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014]

Published Papers

el at., TrkB-mediated neuroprotection in female hippocampal neurons is autonomous, estrogen receptor alpha-dependent, and eliminated by testosterone: a proposed model for sex differences in neonatal hippocampal neuronal injury. In Biol Sex Differ
on 2024 Apr 2 by Vishal Chanana, Dila Zafer, et al..PMID:38566248, , (2024)
PMID:38566248

el at., Vishal Chanana1, 2, Dila Zafer1, 2, Douglas B Kintner1, 2, Jayadevi H Chandrashekhar1, 3, Jens Eickhoff4, , (2024)
PMID:

Simmons, Danielle A;Belichenko, Nadia P;Longo, Frank M el at., Pharmacological Co-Activation of TrkB and TrkC Receptor Signaling Ameliorates Striatal Neuropathology and Motor Deficits in Mouse Models of Huntington's Disease., , (2023)
PMID:37638447

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