bs-0175R

[Primary Antibody]

TrkB Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 4915 **SWISS:** Q16620

Target: TrkB

Immunogen: KLH conjugated synthetic peptide derived from human NTRK2: 401-500/822.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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. Alternate transcriptional splice variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008].

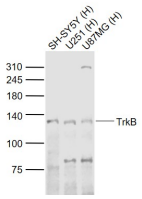
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1μg/Test)

Reactivity: Human, Rat (predicted: Mouse)

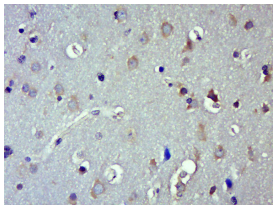
Predicted MW.: 90-92 kDa

Subcellular Location: Cell membrane ,Cytoplasm

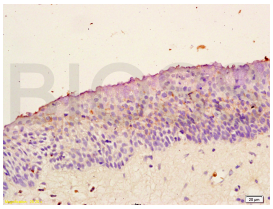
VALIDATION IMAGES



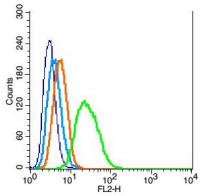
Sample: Lane 1: SH-SY5Y (Human) Cell Lysate at 30 ug Lane 2: U251 (Human) Cell Lysate at 30 ug Lane 3: U87MG (Human) Cell Lysate at 30 ug Primary: Anti-TrkB (bs-0175R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 130 kD Observed band size: 130 kD



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (TrkB) Polyclonal Antibody, Unconjugated (bs-0175R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Tissue/cell: human nasopharyngeal carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-Trk-B Polyclonal Antibody, Unconjugated(bs-0175R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control: RSC96(blue), the cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with ice-cold 90% methanol for 30 min on ice. Isotype Control Antibody: Rabbit IgG(orange) ; Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X

PBS containing 0.5% BSA ; Primary Antibody Dilution: 1µg in 100 µL1X PBS containing 0.5% BSA(green).

SELECTED CITATIONS

- **[IF=5.195]** Akira Tani. et al. Stimulation of functional recovery via neurorepair mechanisms by the traditional Japanese Kampo medicine, Ninjin'yoeito, and physical exercise in a rat ischemic stroke model. J ETHNOPHARMACOL. 2023 Feb;302:115927 WB,IHC ;Rat. 36402237
- **[IF=5.151]** Li Q et al. Cerebrosides from Sea Cucumber Improved Aβ1‐42 Induced Cognitive Deficiency in a Rat Model of Alzheimer's Disease.(2018) Mol Nutr Food Res. WB ;Rat. 30512229
- **[IF=4.362]** Zhang Yan-hui. et al. α-Lipoic Acid Maintains Brain Glucose Metabolism via BDNF/TrkB/HIF-1α Signaling Pathway in P301S Mice. Front Aging Neurosci. 2020 Aug;12:262 IHC ;Mouse. 32973490
- **[IF=4.225]** Liu P et al. Harmine Ameliorates Cognitive Impairment by Inhibiting NLRP3 Inflammasome Activation and Enhancing the BDNF/TrkB Signaling Pathway in STZ-Induced Diabetic Rats. Front Pharmacol. 2020 May 1;11:535. WB ;Rat. 32425784
- **[IF=4.362]** Gao X et al. Effects of Clostridium perfringens beta2 toxin on apoptosis, inflammation, and barrier function of intestinal porcine epithelial cells. Microb Pathog. 2020 Oct;147:104379. WB,IHC ;Mouse. 32973490