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## TrkA Rabbit pAb

Catalog Number: bs-0193R

Target Protein: TrkA

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500)

Reactivity: Human, Rat (predicted: Mouse, Pig, Sheep, Cow, Horse)

Predicted MW: 90 kDa

Entrez Gene: 4914

Swiss Prot: P04629

Source: KLH conjugated synthetic peptide derived from human Trk A: 725-796/796.

Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

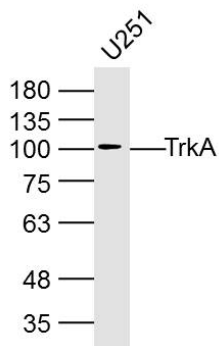
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**Background:** The Trk family of nerve growth factor receptors includes Trk A(also referred to as Trk A gp140), Trk B and Trk C. The prototype member of this gene family, Trk A, encodes a 140 kDa cell surface receptor, gp140, the expression of which is restricted in vivo to neurons of the sensory spinal and cranial ganglia of neurocrest origin. Nerve growth factor (NGF) stimulates tyrosine phosphorylation of Trk gp 140 in neural cell lines and in embryonic dorsal root ganglia. By comparison, BDNF and to a lesser extent, NT-3, but not NGF, can induce tyrosine phosphorylation of Trk B gp 145. The third member of the Trk receptor family, Trk C encodes a 140 kDa protein, Trk C gp140, that is preferentially expressed in brain tissue and primarily functions as a receptor for NT-3. An additional component of the Trk receptor complex, NGFR p175, binds to neurotrophic factors with low affinity but is required for efficient signaling. NGFR p175 accelerates Trk activation and may recruit downstream effector molecules to the ligand-bound receptor complex.

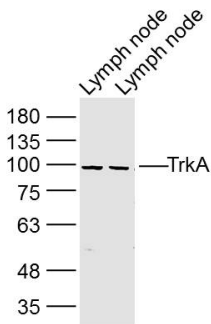
### VALIDATION IMAGES

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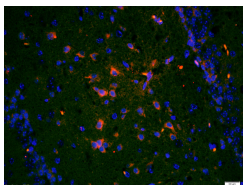
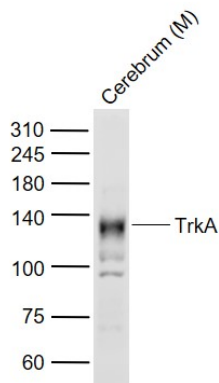
Sample: U251 Cell (Human) Lysate at 40 ug Primary: Anti- TrkA (bs-0193R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 90 kD Observed band size: 100 kD



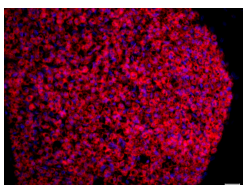
Sample: Lymph node (Mouse) Lysate at 40 ug Lymph node (Rat) Lysate at 40 ug Primary: Anti- TrkA (bs-0193R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 90 kD Observed band size: 100 kD



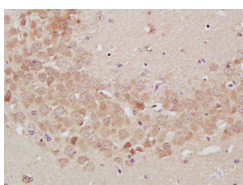
Sample: Lane 1: Cerebrum (Mouse) Lysate at 40 ug Primary: Anti-TrkA (bs-0193R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 130 kD Observed band size: 130 kD



Tissue/cell: mouse brain tissue;4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-TrkA Polyclonal Antibody, Unconjugated(bs-0193R) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated(bs-0295G-Cy3)used at 1:200 dilution for 40 minutes at 37°C. DAPI(5ug/ml,blue,C-0033) was used to stain the cell nuclei



Tissue/cell: mouse embryo tissue;4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-TrkA Polyclonal Antibody, Unconjugated(bs-0193R) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated(bs-0295G-Cy3)used at 1:200 dilution for 40 minutes at 37°C. DAPI(5ug/ml,blue,C-0033) was used to stain the cell nuclei



Paraformaldehyde-fixed, paraffin embedded (Mouse 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 (TrkA) Polyclonal Antibody, Unconjugated (bs-0193R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

## PRODUCT SPECIFIC PUBLICATIONS

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[IF=9.685] Song, Chen. et al. The phosphorylation of PHF5A by TrkA-ERK1/2-ABL1 cascade regulates centrosome separation. CELL DEATH DIS. 2023 Feb;14(2):1-14 WB ; Mouse,Human . 36759599

[IF=2.9] Zixiu Liu. et al. NGF Signaling Exacerbates KOA Peripheral Hyperalgesia via the Increased TRPV1-Labeled Synovial Sensory Innervation in KOA Rats. PAIN RES MANAG. 2024;2024:1552594 WB,IHC,IF ; Rat . 38410126

[IF=1.918] Huaxin Sun. et al. Tragus Nerve Stimulation Suppresses Post-Infarction Ventricular Arrhythmia by Modulating Autonomic Activity and Heterogeneities of Cardiac Receptor Distribution. Med Sci Monitor. 2020; 26: e922277-1–e922277-12 WB ; Dog . 32447339

[IF=1.13] Li, Xiaoming, et al. "Biological and clinical significance of p75NTR expression in laryngeal squamous epithelia and laryngocarcinoma." Acta oto-laryngologica 132.3 (2012): 314-324. IHC ; ="Human" . 22201277

[IF=0.32] BiR, Ferda, et al. "New immunohistochemical markers in the differential diagnosis of nonsmall cell lung carcinoma." Turkish Journal of Medical Sciences (2016). IHC ; ="Human" . doi:10.3906/sag-1501-68