bs-3457R **[Primary Antibody]**

Phospho-TrkA(Tyr674 + Tyr675) + TrkB(Tyr706 + Tyr707) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 4914 **SWISS:** P04629

Target: Phospho-TrkA(Tyr674 + Tyr675) + TrkB(Tyr706 + Tyr707)

Immunogen: KLH conjugated Synthesised phosphopeptide derived from human TrkA around the phosphorylation site of Tyr674/675: TD(p-Y)(p-Y)RV.

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: The Trk family of nerve growth factor receptors includes Trk A(also referfed 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 gangliaof 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 phophorylayion of Trk B gp 145. The third member of the Trk receptor family, Trk C incodes 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 dffector molecules to the ligand-bound receptor complex.

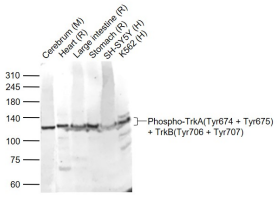
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human, Mouse, Rat

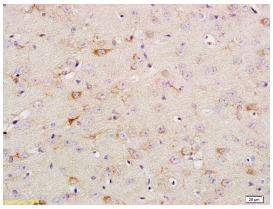
Predicted MW.: 90 kDa

Subcellular Location: Cell membrane ,Cytoplasm

VALIDATION IMAGES



Sample: Lane 1: Cerebrum (Mouse) Lysate at 40 ug Lane 2: Heart (Rat) Lysate at 40 ug Lane 3: Large intestine (Rat) Lysate at 40 ug Lane 4: Stomach (Rat) Lysate at 40 ug Lane 5: SH-SY5Y (Human) Cell Lysate at 30 ug Lane 6: K562 (Human) Cell Lysate at 30 ug Primary: Anti-Phospho-TrkA(Tyr674 + Tyr675) + TrkB(Tyr706 + Tyr707) (bs-3457R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 140/110 kD Observed band size: 120 kD



Tissue/cell: rat brain tissue; 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-Phospho-TrkA(Tyr674/675)/TrkB(Tyr706/707) Polyclonal Antibody, Unconjugated (bs-3457R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

SELECTED CITATIONS

- **[IF=16.6]** Huang Jing. et al. Mesenchymal stromal cells alleviate depressive and anxiety-like behaviors via a lung vagal-to-brain axis in male mice. NAT COMMUN. 2023 Nov;14(1):1-17 IF,WB ;Mouse. 37973914