bsm-52213R **[Primary Antibody]**

phospho-TrkB (Tyr817) Recombinant Rabbit mAb

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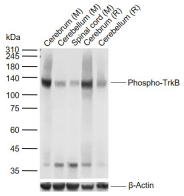
DATASHEET

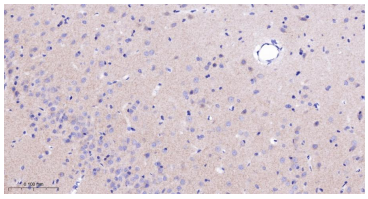
Host: Rabbit
Isotype: IgG
Clonality: Recombinant
CloneNo.: 2A1
GeneID: 4915
SWISS: Q16620
Target: TrkB (Tyr817)
Immunogen: KLH conjugated Synthesised phosphopeptide derived from human NTRK2 around the phosphorylation site of Tyr817: PV(p-Y)LD.
Purification: affinity purified by Protein A
Concentration: 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 (1:50-200)
IHC-F (1:50-200)
IF (1:50-200)
ICC/IF (1:50-200)
Reactivity: Mouse, Rat
(predicted: Human)
Predicted MW.: 90 kDa
Observed MW.: 115 kDa
Subcellular Location: Cell membrane ,Cytoplasm

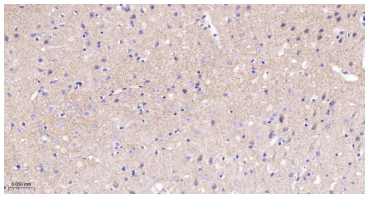
VALIDATION IMAGES



Sample: Lane 1: Mouse Cerebrum tissue lysates Lane 2: Mouse Cerebellum tissue lysates Lane 3: Mouse Spinal cord tissue lysates Lane 4: Rat Cerebrum tissue lysates Lane 5: Rat Cerebellum tissue lysates Primary: Anti-Phospho-TrkB (Tyr817) (bsm-52213R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 90 kDa Observed band size: 115 kDa



Paraformaldehyde-fixed, paraffin embedded Rat Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Phospho-TrkB (Tyr817) Monoclonal Antibody, Unconjugated (bsm-52213R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Mouse Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Phospho-TrkB (Tyr817) Monoclonal Antibody, Unconjugated (bsm-52213R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.

SELECTED CITATIONS

- **[IF=6.8]** Fei Hao. et al. Maternal exposure to deltamethrin during pregnancy and lactation impairs neurodevelopment of male offspring. ECOTOX ENVIRON SAFE. 2024 Apr;274:116196 WB ;Rat. 38461575
- **[IF=4.2]** Xie Jiangang. et al. Exertional heat stroke-induced changes in gut microbiota cause cognitive impairment in mice. BMC MICROBIOL. 2024 Dec;24(1):1-13 WB ;Mouse. 38654189
- **[IF=2.7]** Linxiao Wang. et al. Lactobacillus rhamnosus GG improves cognitive impairments in mice with sepsis. PEERJ. 2024 May;12:e17427 WB ;Mouse. 38827289