**bs-5526R** **[ Primary Antibody ]**

# phospho-TrkB (Tyr705) Rabbit pAb

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## DATASHEET

**Host:** Rabbit **Isotype:** IgG

**Clonality:** Polyclonal

**GeneID:** 25054 **SWISS:** Q63604

**Target:** TrkB (Tyr705)

**Immunogen:** KLH conjugated Synthesised phosphopeptide derived from rat NTRK2 around the phosphorylation site of Tyr705: TD(p-Y)YR.

**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].

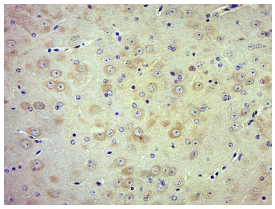
**Applications:** **IHC-P** (1:100-500)
**IHC-F** (1:100-500)
**IF** (1:100-500)
**ICC/IF** (1:100)

**Reactivity:** Human, Mouse, Rat (predicted: Rabbit, Pig, Cow, Chicken, Dog, Horse)

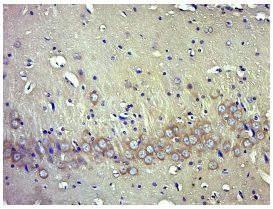
**Predicted MW.:** 92 kDa

**Subcellular Location:** Cell membrane ,Cytoplasm

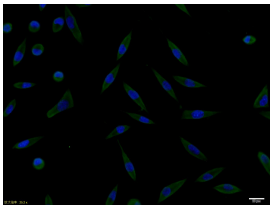
## VALIDATION IMAGES



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 (phospho-TrkB (Tyr705)) Polyclonal Antibody, Unconjugated (bs-5526R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



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 (phospho-TrkB (Tyr705)) Polyclonal Antibody, Unconjugated (bs-5526R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



SHSY5Y cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (phospho-TrkB (Tyr705)) polyclonal Antibody, Unconjugated (bs-5526R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

## SELECTED CITATIONS


- **[IF=14.5]** Kaikai Zhang. et al. Gut microbiota-derived short-chain fatty acids ameliorate methamphetamine-induced depression- and anxiety-like behaviors in a Sigmar-1 receptor-dependent manner. ACTA PHARM SIN B. 2023 Sep;: IF ;Mouse. 10.1016/j.apsb.2023.09.010
- **[IF=4.872]** Zixuan Li. et al. Perinatal exposure to BDE-47 exacerbated autistic-like behaviors and impairments of dendritic development in a valproic acid-induced rat model of autism. Ecotox Environ Safe. 2021 Apr;212:112000 WB,IF ;Dog. 33550075
- **[IF=4.427]** You M et al. Perinatal exposure to nonylphenol impairs dendritic outgrowth of cerebellar Purkinje cells in

progeny. Chemosphere. 2018 Nov;211:758-766. IF,WB ;pup. 30099160

- **[IF=3.349]** Liu C et al. Esculentoside A suppresses breast cancer stem cell growth through stemness attenuation and apoptosis induction by blocking IL-6/STAT3 signaling pathway. Phytotherapy Research.2018. WB ;Mouse&Human. 10.1002/ptr.6172
- **[IF=2.6]** Yanping Ding. et al. Astragaloside IV plays a neuroprotective role by promoting PPARγ in cerebral ischemia-reperfusion rats. BEHAV BRAIN RES. 2024 Sep;:115267 WB ;Rat. 39341463