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## TPH Rabbit pAb

Catalog Number: bs-1215R

Target Protein: TPH

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: Mouse, Rat (predicted:Human, Rabbit, Chicken, Dog, Horse)

Predicted MW: 49 kDa

Subcellular: Cytoplasm

Locations:

Entrez Gene: 7166

Swiss Prot: P17752

Source: KLH conjugated synthetic peptide derived from human TPH: 31-150/444.

Purification: affinity purified by Protein A

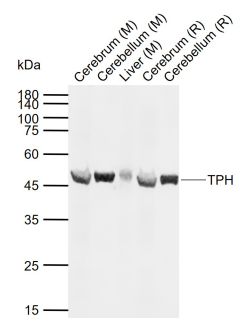
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

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

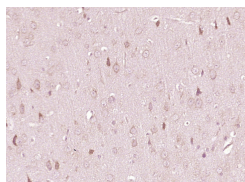
**Background:** This gene encodes a member of the aromatic amino acid hydroxylase family. The encoded protein catalyzes the first and rate limiting step in the biosynthesis of serotonin, an important hormone and neurotransmitter. Mutations in this gene have been associated with an elevated risk for a variety of diseases and disorders, including schizophrenia, somatic anxiety, anger-related traits, bipolar disorder, suicidal behavior, addictions, and others.[provided by RefSeq, Apr 2009].

### VALIDATION IMAGES

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Sample: Lane 1: Mouse Cerebrum tissue lysates Lane 2: Mouse Cerebellum tissue lysates Lane 3: Mouse Liver tissue lysates Lane 4: Rat Cerebrum tissue lysates Lane 5: Rat Cerebellum tissue lysates Primary: Anti-TPH (bs-1215R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 49 kDa Observed band size: 49 kDa



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 (TPH) Polyclonal Antibody, Unconjugated (bs-1215R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

## PRODUCT SPECIFIC PUBLICATIONS

[IF=8.4] Deng Rui. et al. Capsaicin orchestrates metastasis in gastric cancer via modulating expression of TRPV1 channels and driving gut microbiota disorder. CELL COMMUN SIGNAL. 2023 Dec;21(1):1-18 IF ; MOUSE . 38129926

[IF=5.561] Lei Wu. et al. Ethanol Extract of Mao Jian Green Tea Attenuates Gastrointestinal Symptoms in a Rat Model of Irritable Bowel Syndrome with Constipation via the 5-hydroxytryptamine Signaling Pathway. FOODS. 2023 Jan;12(5):1101 WB ; Rat . 36900618

[IF=4.996] Baba, Kazuhiko. et al. Upregulation of the hypothalamo-neurohypophyseal system and activation of vasopressin neurones attenuates hyperalgesia in a neuropathic pain model rat. SCI REP-UK. 2022 Jul;12(1):1-15 IHC ; Rat . 35906406

[IF=2.75] Dong, Xian-Zhe, et al. "A representative prescription for emotional disease, Ding-Zhi-Xiao-Wan restores 5-HT system deficit through interfering the synthesis and transshipment in chronic mild stress-induced depressive Rats." Journal of Ethnopharmacology (2013). WB ; ="Rat" . 24184266

[IF=3.158] Ryo Kajihara. et al. Water intake releases serotonin from enterochromaffin cells in rat jejunal villi. 2021 Apr 28 IHC ; Rat . 33913004