bs-2127R **[Primary Antibody]**

5HT4 Receptor Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 3360 **SWISS:** Q13639

Target: 5HT4 Receptor

Immunogen: KLH conjugated synthetic peptide derived from human 5-HTR4: 21-120/388.

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 is a member of the family of serotonin receptors, which are G protein coupled receptors that stimulate cAMP production in response to serotonin (5-hydroxytryptamine). The gene product is a glycosylated transmembrane protein that functions in both the peripheral and central nervous system to modulate the release of various neurotransmitters. Multiple transcript variants encoding proteins with distinct C-terminal sequences have been described. [provided by RefSeq, May 2010]

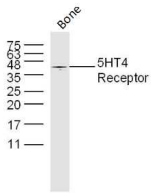
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:200-800)

Reactivity: Human, Mouse, Rat (predicted: Cow, Chicken)

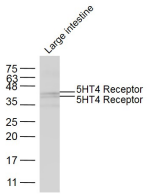
Predicted MW.: 43 kDa

Subcellular Location: Cell membrane ,Cytoplasm

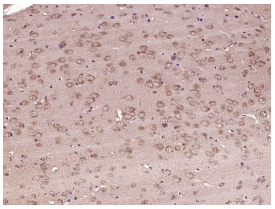
VALIDATION IMAGES



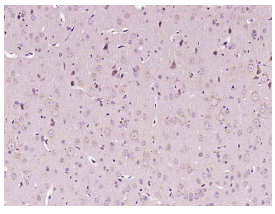
Sample: Bone (Mouse) Lysate at 40 ug Primary: Anti-5HT4 Receptor (bs- 2127R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 43 kD Observed band size: 43 kD



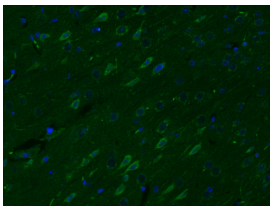
Sample: Large intestine (Mouse) Lysate at 40 ug Primary: Anti-5HT4 Receptor (bs-2127R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 43 kD Observed band size: 43 kD



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 (5HT4 Receptor) Polyclonal Antibody, Unconjugated (bs-2127R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand 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



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 (5HT4 Receptor) Polyclonal Antibody, Unconjugated (bs-2127R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

incubation with (5HT4 Receptor) Polyclonal Antibody, Unconjugated (bs-2127R) at 1:400 overnight at 4°C, followed by a conjugated Goat Anti-Rabbit IgG antibody (bs-0295G-FITC) for 90 minutes, and DAPI for nuclei staining.

SELECTED CITATIONS

- **[IF=8.7]** Grigoletto Jessica. et al. Velusetrag rescues GI dysfunction, gut inflammation and dysbiosis in a mouse model of Parkinson’ s disease. NPJ PARKINSONS DIS. 2023 Oct;9(1):1-15 WB ;Mouse. 37783672
- **[IF=6.064]** Eri Kitayama. et al. Functional Expression of IP, 5-HT4, D1, A2A, and VIP Receptors in Human Odontoblast Cell Line. BIOMOLECULES. 2023 Jun;13(6):879 ICC ;Human. 10.3390/biom13060879
- **[IF=4.9]** Thomas Gener. et al. Neural Mechanism of 5-HT4R-Mediated Memory Enhancement in Hippocampal–Prefrontal Circuits in a Mouse Model of Schizophrenia. INT J MOL SCI. 2025 Jan;26(8):3659 IHC ;Mouse. 40332153
- **[IF=4.927]** Siyuan Peng. et al. LMWP (S3-3) from the Larvae of Musca domestica Alleviate D-IBS by Adjusting the Gut Microbiota. MOLECULES. 2022 Jan;27(14):4517 IHC ;Mouse. 35889391
- **[IF=4.8]** Ting Hong. et al. Exosomal circBBS2 inhibits ferroptosis by targeting miR-494 to activate SLC7A11 signaling in ischemic stroke. FASEB J. 2023 Aug;37(9):e23152 WB ;Human. 37603538