

5HT3B receptor Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) **Catalog # AP58148**

Specification

5HT3B receptor Polyclonal Antibody - Product Information

WB, IHC-P, IHC-F, IF, ICC, E Application

Primary Accession 095264 Reactivity Rat. Bovine **Rabbit** Host Clonality **Polyclonal** Calculated MW **50 KDa Physical State** Liquid

Immunogen KLH conjugated synthetic peptide derived

laG

from human 5HTR3B/5HT3B receptor

Epitope Specificity 101-200/441

Isotype **Purity**

affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Cell membrane; Multi-pass membrane

protein. Note=Presumably retained within

the endoplasmic reticulum unless

complexed with HTR3A.

SIMILARITY Belongs to the ligand-gated ion channel

(TC 1.A.9) family. 5-hydroxytryptamine receptor (TC 1.A.9.2) subfamily. HTR3B

sub-subfamily.

SUBUNIT Forms a pentaheteromeric complex with

HTR3A. Not functional as a homomeric

complex.

Post-translational modifications N-glycosylation required for membrane

localization.

Important Note This product as supplied is intended for

research use only, not for use in human,

therapeutic or diagnostic applications.

Background Descriptions

This is one of the several different receptors for 5-hydroxytryptamine (serotonin), a biogenic hormone that functions as a neurotransmitter, a hormone, and a mitogen. This receptor is a ligand-gated ion channel, which when activated causes fast, depolarizing responses. It is a cation-specific, but otherwise relatively nonselective, ion channel.

5HT3B receptor Polyclonal Antibody - Additional Information

Gene ID 9177

Other Names



5-hydroxytryptamine receptor 3B, 5-HT3-B, 5-HT3B, Serotonin receptor 3B, HTR3B

Target/Specificity

Expressed in the brain cortex, in the caudate nucleus, the hyppocampus, the thalamus and the amygdala. Detected in the kidney and testis as well as in monocytes of the spleen, small and large intestine, uterus, prostate, ovary and placenta.

Dilution

WB~~1:1000<br \><span class
="dilution_IHC-P">IHC-P~~N/A<br \><span class
="dilution_IHC-F">IHC-F~~N/A<br \><span class
="dilution_IF">IF~~1:50~200<br \>ICC~~N/A<br \>ICC~~N/A<br \>ICC~~N/A<br \>ICC~~N/A

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

5HT3B receptor Polyclonal Antibody - Protein Information

Name HTR3B (HGNC:5298)

Function

Forms serotonin (5-hydroxytryptamine/5-HT3)-activated cation- selective channel complexes, which when activated cause fast, depolarizing responses in neurons.

Cellular Location

Postsynaptic cell membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein. Note=Presumably retained within the endoplasmic reticulum unless complexed with HTR3A

Tissue Location

Expressed in the brain cortex, in the caudate nucleus, the hippocampus, the thalamus and the amygdala. Detected in the kidney and testis as well as in monocytes of the spleen, small and large intestine, uterus, prostate, ovary and placenta

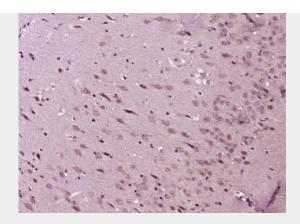
5HT3B receptor Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

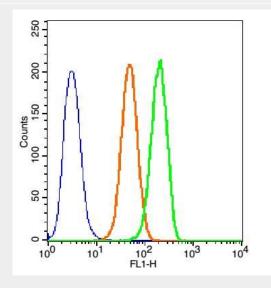
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

5HT3B receptor Polyclonal Antibody - Images





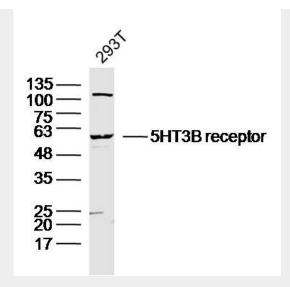
Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (5HT3B receptor) Polyclonal Antibody, Unconjugated (bs-4289R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Blank control(blue):293T Cells(fixed with 2% paraformaldehyde (10 min) and then permeabilized with ice-cold 90% methanol for 30 min on ice).

Primary Antibody: Rabbit Anti-5HT3B receptor Phospho-c-Fos (Thr325)/AF488 Conjugated antibody (bs-4289R-AF488), Dilution: 1ug in 100 ul 1X PBS containing 0.5% BSA;



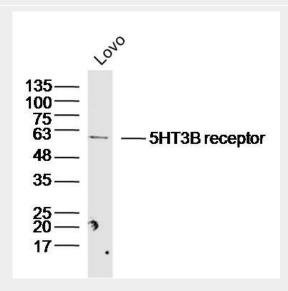


Sample: 293T Cell (Human) Lysate at 40 ug

Primary: Anti- 5HT3B receptor (bs-4289R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 50 kD Observed band size: 55 kD



Sample: Lovo Cell (Human) Lysate at 40 ug

Primary: Anti- 5HT3B receptor (bs-4289R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 50 kD Observed band size: 55 kD