

Polyclonal Antibody to Serotonin receptor 2B (HTR2B) (Extracell. Dom.) - Aff - Purified

Alternate names:	5-HT-2B, 5-HT2B, 5-hydroxytryptamine receptor 2B
Catalog No.:	SP4046P
Quantity:	50 µg
Concentration:	1.0 mg/ml
Background:	<p>5-HT2B, a Serotonin Receptor, activates phospholipase C upon binding serotonin, which results in a rise in intracellular calcium. It is known that 5-HT2B regulates cardiovascular function during development and in adulthood; mice lacking functional 5-HT2B receptors died of heart defects during gestation or neonatally, and adult mutant mice displayed cardiopathy, including myocyte disarray and ventricular dilation. Abnormal vascular proliferation causes an increase in pulmonary blood pressure, which is associated with an increase in 5-HT2B receptor, resulting in the development of pulmonary hypertension. It has also been reported that the 5-HT2B is involved in cell-cycle regulation via interaction with tyrosine kinase pathways. 5-HT2B receptors may have a role in the initiation of migraine headaches, and selective antagonists may prove therapeutic in migraine treatment. 5-HT2B receptor is expressed in many tissues including human liver, kidney, lung, heart, pancreas, spleen, brain, spinal cord, gastrointestinal tract, placenta, and coronary and pulmonary arteries. It has also been reported in embryonic mouse heart and spinal cord. ESTs have been isolated from heart/melanocyte/uterus, kidney, prostate, skin, and thyroid libraries.</p>
Uniprot ID:	P41595
NCBI:	NP_000858.3
GeneID:	3357
Host:	Rabbit
Immunogen:	<p>Synthetic peptide - KLH conjugated Epitope: 2nd extracellular domain of human Genename: HTR2B Remarks: The immunizing peptide shows 80% identity (100% homology) with Mouse and 73% identity (100% homology) with Rat.</p>
Format:	<p>State: Liquid purified Ig fraction Purification: Immunoaffinity Chromatography Buffer Solution: PBS Preservatives: 0.09% Sodium Azide</p>
Applications:	<p>Immunohistochemistry on Paraffin sections: 4-6 µg/ml Antigen retrieval: Steam slides in 0.01 M sodium citrate buffer, pH 6.0, at 99-100°C for 20 min. Remove from heat and let stand at room temperature in buffer for 20 min. Rinse in 1x</p>

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TBS with Tween (TBST) for 1 min. at room temperature.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody reacts with 5-HT_{2B} Receptor (family: GPCR, subfamily: Serotonin)

Species Reactivity: **Tested:** Human.

Expected from sequence similarity: Mouse and Rat.

Add. Information: This product was originally produced by MBL International.

Storage: Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -70°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

Pictures:

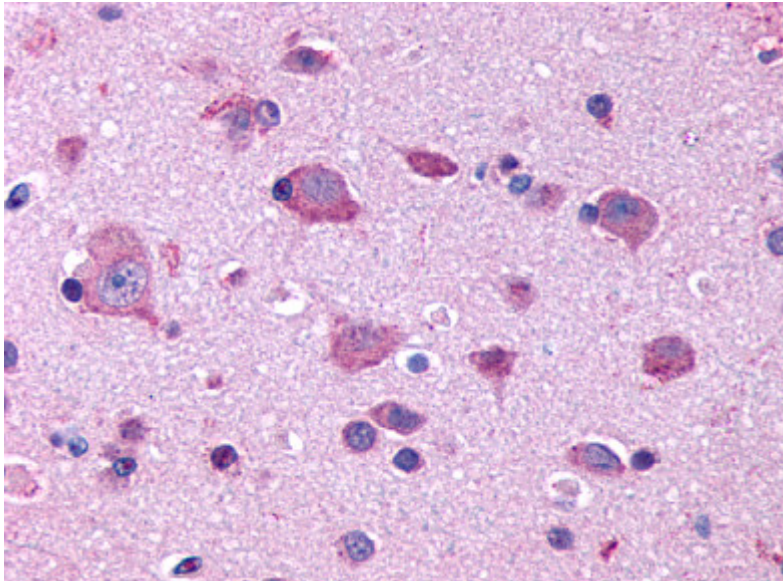


Figure 1. Immunohistochemical staining of Brain (Neurons and Glia) using anti-HTR2B antibody SP4046P.

Recommended Control Peptides: SP4046CP

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