

HTR2B Antibody (C-term E423) Blocking peptide
Synthetic peptide
Catalog # BP11124a**Specification**

HTR2B Antibody (C-term E423) Blocking peptide - Product InformationPrimary Accession [P41595](#)**HTR2B Antibody (C-term E423) Blocking peptide - Additional Information****Gene ID** 3357**Other Names**

5-hydroxytryptamine receptor 2B, 5-HT-2B, 5-HT2B, Serotonin receptor 2B, HTR2B

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

HTR2B Antibody (C-term E423) Blocking peptide - Protein Information**Name** HTR2B**Function**

G-protein coupled receptor for 5-hydroxytryptamine (serotonin) (PubMed:18703043, PubMed:23519210, PubMed:7926008, PubMed:8078486, PubMed:8143856, PubMed:8882600). Also functions as a receptor for various ergot alkaloid derivatives and psychoactive substances (PubMed:12970106, PubMed:18703043, PubMed:23519210, PubMed:23519215, PubMed:24357322, PubMed:28129538, PubMed:7926008, PubMed:8078486, PubMed:8143856). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G

proteins) and modulates the activity of down-stream effectors (PubMed:23519215, PubMed:28129538, PubMed:8078486, PubMed:8143856, PubMed:8882600). Beta-arrestin family members inhibit signaling via G proteins and mediate activation of alternative signaling pathways (PubMed:23519215, PubMed:28129538). Signaling activates a phosphatidylinositol-calcium second messenger system that modulates the activity of phosphatidylinositol 3-kinase and down-stream signaling cascades and promotes the release of Ca(2+) ions from intracellular stores (PubMed:18703043, PubMed:23519215, PubMed:28129538, PubMed:8078486, PubMed:8143856, PubMed:8882600). Plays a role in the regulation of dopamine and 5-hydroxytryptamine release, 5- hydroxytryptamine uptake and in the regulation of extracellular dopamine and 5-hydroxytryptamine levels, and thereby affects neural activity. May play a role in the perception of pain (By similarity). Plays a role in the regulation of behavior, including impulsive behavior (PubMed:21179162). Required for normal proliferation of embryonic cardiac myocytes and normal heart development. Protects cardiomyocytes against apoptosis. Plays a role in the adaptation of pulmonary arteries to chronic hypoxia. Plays a role in vasoconstriction. Required for normal osteoblast function and proliferation, and for maintaining normal bone density. Required for normal proliferation of the interstitial cells of Cajal in the intestine (By similarity).

Cellular Location

Cell membrane; Multi-pass membrane protein. Synapse, synaptosome
{ECO:0000250|UniProtKB:Q02152}

Tissue Location

Ubiquitous. Detected in liver, kidney, heart, pulmonary artery, and intestine. Detected at lower levels in blood, placenta and brain, especially in cerebellum, occipital cortex and frontal cortex.

HTR2B Antibody (C-term E423) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

HTR2B Antibody (C-term E423) Blocking peptide - Images

HTR2B Antibody (C-term E423) Blocking peptide - Background

Multiple receptor subtypes of serotonin neurotransmitters with multiple physiologic functions have been recognized. The 5-HT₂ receptors mediate many of the central and peripheral physiologic functions of serotonin. Cardiovascular effects include contraction of blood vessels and shape changes in platelets; central nervous system effects include neuronal sensitization to tactile stimuli and mediation of hallucinogenic effects of phenylisopropylamine hallucinogens.

HTR2B Antibody (C-term E423) Blocking peptide - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Roberts, K.E., et al. Gastroenterology

139(1):130-139(2010)Svejda, B., et al. Cancer 116(12):2902-2912(2010)Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)Tabakoff, B., et al. BMC Biol. 7, 70 (2009) :