

HTR2B / 5-HT2B Receptor Antibody (aa15-64)
Rabbit Polyclonal Antibody
Catalog # ALS16552**Specification****HTR2B / 5-HT2B Receptor Antibody (aa15-64) - Product Information**

Application	IHC, IF, WB
Primary Accession	P41595
Other Accession	3357
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	54298

HTR2B / 5-HT2B Receptor Antibody (aa15-64) - Additional Information

Gene ID 3357

Other Names

HTR2B, 5-HT 2B receptor, 5HT2B Receptor, 5-HT(2B), 5-HT-2B, 5-HT2b receptor, 5-HT2B, Serotonin 2b receptor, Serotonin 5-HT-2b receptor, Serotonin receptor 2B

Target/Specificity

HTR2B Antibody detects endogenous levels of total HTR2B protein.

Reconstitution & Storage

PBS (without Mg²⁺, Ca²⁺), pH 7.4, 150 mM sodium chloride, 0.02% sodium azide, 50% glycerol.
Store at -20°C for up to one year.

Precautions

HTR2B / 5-HT2B Receptor Antibody (aa15-64) is for research use only and not for use in diagnostic or therapeutic procedures.

HTR2B / 5-HT2B Receptor Antibody (aa15-64) - Protein Information

Name HTR2B

Function

G-protein coupled receptor for 5-hydroxytryptamine (serotonin) (PubMed: [18703043](http://www.uniprot.org/citations/18703043), PubMed: [23519210](http://www.uniprot.org/citations/23519210), PubMed: [7926008](http://www.uniprot.org/citations/7926008), PubMed: [8078486](http://www.uniprot.org/citations/8078486), PubMed: [8143856](http://www.uniprot.org/citations/8143856), PubMed: [8882600](http://www.uniprot.org/citations/8882600)). Also functions as a receptor for various ergot alkaloid derivatives and psychoactive substances (PubMed: [12970106](http://www.uniprot.org/citations/12970106), PubMed: [12970106](#)).

<http://www.uniprot.org/citations/18703043> target="_blank">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.

Volume

50 µl

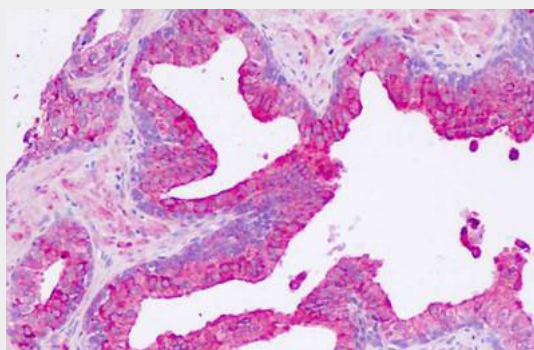
HTR2B / 5-HT2B Receptor Antibody (aa15-64) - Protocols

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

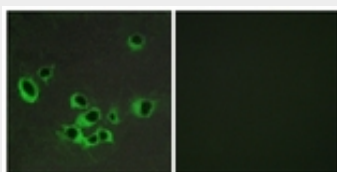
- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

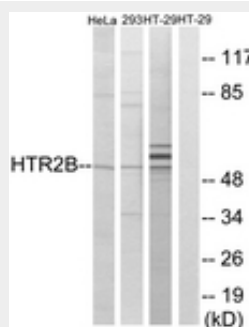
HTR2B / 5-HT2B Receptor Antibody (aa15-64) - Images



Anti-HTR1B / 5-HT2B Receptor antibody IHC staining of human prostate.



Immunofluorescence of COS7 cells, using HTR2B Antibody.



Western blot of extracts from HT-29/293/HeLa cells, using HTR2B Antibody.

HTR2B / 5-HT2B Receptor Antibody (aa15-64) - Background

G-protein coupled receptor for 5-hydroxytryptamine (serotonin). Also functions as a receptor for various ergot alkaloid derivatives and psychoactive substances. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors. Beta-arrestin family members inhibit signaling via G proteins and mediate activation of alternative signaling pathways. 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. 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. Plays a role in the regulation of behavior, including impulsive behavior.

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.

HTR2B / 5-HT2B Receptor Antibody (aa15-64) - References

- Schmuck K., et al. FEBS Lett. 342:85-90(1994).
Choi D.S., et al. FEBS Lett. 352:393-399(1994).
Kursar J.D., et al. Mol. Pharmacol. 46:227-234(1994).
Kim S.J., et al. Mol. Cell. Probes 14:47-52(2000).
Puhl H.L. III, et al. Submitted (JUL-2002) to the EMBL/GenBank/DDBJ databases.