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HTR1D / 5-HT1D Receptor Antibody (aa1-18)

Rabbit Polyclonal Antibody
Catalog # ALS12084

Specification

HTR1D / 5-HT1D Receptor Antibody (aa1-18) - Product Information

Application	**IHC**
Primary Accession	P28221
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**42kDa KDa**

HTR1D / 5-HT1D Receptor Antibody (aa1-18) - Additional Information

Gene ID 3352

Other Names
5-hydroxytryptamine receptor 1D, 5-HT-1D, 5-HT1D, Serotonin 1D alpha receptor, 5-HT-1D-alpha, Serotonin receptor 1D, HTR1D, HTR1DA, HTRL

Target/Specificity
A mixture of synthetic peptides corresponding to amino acids 1-18 and 251-267 of rat 5-HT1DR (Genbank accession no. NP_036984).

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions
HTR1D / 5-HT1D Receptor Antibody (aa1-18) is for research use only and not for use in diagnostic or therapeutic procedures.

HTR1D / 5-HT1D Receptor Antibody (aa1-18) - Protein Information

Name HTR1D (HGNC:5289)

Synonyms HTR1DA, HTRL

Function
G-protein coupled receptor for 5-hydroxytryptamine (serotonin) (PubMed:10452531, PubMed:1565658, PubMed:1652050, PubMed:33762731). Also functions as a receptor for ergot alkaloid derivatives, various anxiolytic and antidepressant drugs and other psychoactive substances (PubMed:10452531, PubMed:1565658, PubMed:<a href="http://www.uniprot.org/citations/1652050"

target="_blank">1652050, PubMed:33762731). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of downstream effectors, such as adenylate cyclase (PubMed:10452531, PubMed:1565658, PubMed:1652050, PubMed:33762731). HTR1D is coupled to G(i)/G(o) G alpha proteins and mediates inhibitory neurotransmission by inhibiting adenylate cyclase activity (PubMed:33762731). Regulates the release of 5- hydroxytryptamine in the brain, and thereby affects neural activity (PubMed:18476671, PubMed:20945968). May also play a role in regulating the release of other neurotransmitters (PubMed:18476671, PubMed:20945968). May play a role in vasoconstriction (PubMed:18476671, PubMed:20945968).

Cellular Location
Cell membrane; Multi-pass membrane protein

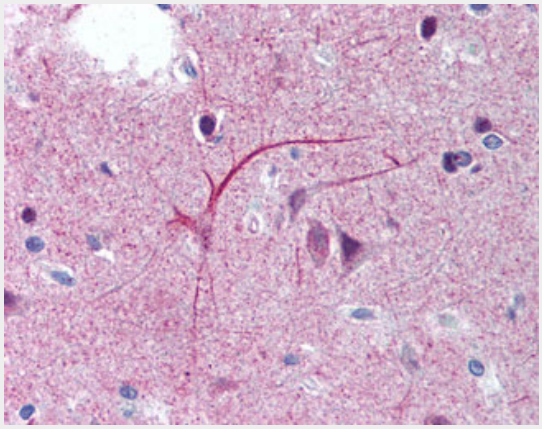
Tissue Location
Detected in brain neocortex and caudate nucleus (at protein level).

HTR1D / 5-HT1D Receptor Antibody (aa1-18) - 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

HTR1D / 5-HT1D Receptor Antibody (aa1-18) - Images



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Anti-5HT1D Receptor antibody IHC of human brain, cortex.

HTR1D / 5-HT1D Receptor Antibody (aa1-18) - Background

G-protein coupled receptor for 5-hydroxytryptamine (serotonin). Also functions as a receptor for ergot alkaloid derivatives, various anxiolytic and antidepressant drugs and other 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, such as adenylate cyclase. Signaling inhibits adenylate cyclase activity. Regulates the release of 5-hydroxytryptamine in the brain, and thereby affects neural activity. May also play a role in regulating the release of other neurotransmitters. May play a role in vasoconstriction.

HTR1D / 5-HT1D Receptor Antibody (aa1-18) - References

Hamblin M.W.,et al.Mol. Pharmacol. 40:143-148(1991).
Weinshank R.L.,et al.Proc. Natl. Acad. Sci. U.S.A. 89:3630-3634(1992).
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