

HTR1D Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19163b**Specification**

HTR1D Antibody (C-term) - Product Information

| | |
|-------------------|--|
| Application | WB,E |
| Primary Accession | P28221 |
| Other Accession | P28565 , P49145 , P79400 , Q61224 , NP_000855.1 |
| Reactivity | Mouse |
| Predicted | Pig, Rabbit, Rat |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | Rabbit IgG |
| Calculated MW | 41907 |
| Antigen Region | 272-301 |

HTR1D Antibody (C-term) - 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

This HTR1D antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 272-301 amino acids from the C-terminal region of human HTR1D.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

HTR1D Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

HTR1D Antibody (C-term) - 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:[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

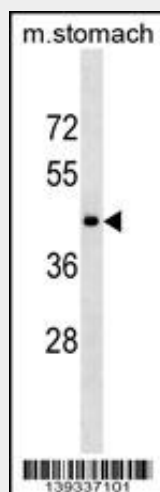
Detected in brain neocortex and caudate nucleus (at protein level).

HTR1D Antibody (C-term) - 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](#)

HTR1D Antibody (C-term) - Images



HTR1D Antibody (C-term) (Cat. #AP19163b) western blot analysis in mouse stomach tissue lysates (35ug/lane). This demonstrates the HTR1D antibody detected the HTR1D protein (arrow).

HTR1D Antibody (C-term) - Background

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. The activity of this receptor is mediated by G proteins that inhibit adenylate cyclase activity.

HTR1D Antibody (C-term) - References

Middeldorp, C.M., et al. Genes Brain Behav. 9(7):808-816(2010)
Kiezebrink, K., et al. World J. Biol. Psychiatry 11(6):824-833(2010)
Ruano, G., et al. Pharmacogenomics 11(7):959-971(2010)
Pinheiro, A.P., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 153B (5), 1070-1080 (2010) :
Goswami, D.B., et al. J. Neurochem. 112(2):397-409(2010)