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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

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

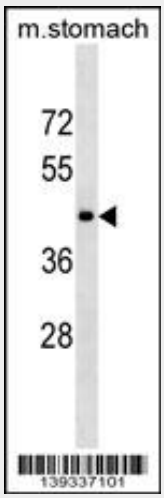
Tissue Location
Detected in brain neocortex and caudate nucleus (at protein level).

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 Cytomety
- 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).

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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)