

HTR1A Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20616c**Specification**

HTR1A Antibody (Center) - Product Information

Application	WB, FC,E
Primary Accession	P08908
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	46107
Antigen Region	239-273

HTR1A Antibody (Center) - Additional Information**Gene ID** 3350**Other Names**

5-hydroxytryptamine receptor 1A, 5-HT-1A, 5-HT1A, G-21, Serotonin receptor 1A, HTR1A, ADRB2RL1, ADRBRL1

Target/Specificity

This HTR1A antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 239-273 amino acids from the Central region of human HTR1A.

Dilution

WB~~1:1000

FC~~1:25

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

HTR1A Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

HTR1A Antibody (Center) - Protein Information**Name** HTR1A ([HGNC:5286](#))**Synonyms** ADRB2RL1, ADRBRL1

Function G-protein coupled receptor for 5-hydroxytryptamine (serotonin) (PubMed:[22957663](#), PubMed:[3138543](#), PubMed:[33762731](#), PubMed:[37935376](#), PubMed:[37935377](#), PubMed:[8138923](#), PubMed:[8393041](#)). Also functions as a receptor for various drugs and psychoactive substances (PubMed:[22957663](#), PubMed:[3138543](#), PubMed:[33762731](#), PubMed:[38552625](#), PubMed:[8138923](#), PubMed:[8393041](#)). 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:[22957663](#), PubMed:[3138543](#), PubMed:[33762731](#), PubMed:[8138923](#), PubMed:[8393041](#)). HTR1A is coupled to G(i)/G(o) G alpha proteins and mediates inhibitory neurotransmission: signaling inhibits adenylate cyclase activity and activates a phosphatidylinositol-calcium second messenger system that regulates the release of Ca(2+) ions from intracellular stores (PubMed:[33762731](#), PubMed:[35610220](#)). Beta-arrestin family members regulate signaling by mediating both receptor desensitization and resensitization processes (PubMed:[18476671](#), PubMed:[20363322](#), PubMed:[20945968](#)). Plays a role in the regulation of 5-hydroxytryptamine release and in the regulation of dopamine and 5- hydroxytryptamine metabolism (PubMed:[18476671](#), PubMed:[20363322](#), PubMed:[20945968](#)). Plays a role in the regulation of dopamine and 5- hydroxytryptamine levels in the brain, and thereby affects neural activity, mood and behavior (PubMed:[18476671](#), PubMed:[20363322](#), PubMed:[20945968](#)). Plays a role in the response to angiogenic stimuli (PubMed:[18476671](#), PubMed:[20363322](#), PubMed:[20945968](#)).

Cellular Location

Cell membrane; Multi-pass membrane protein. Cell projection, dendrite
{ECO:0000250|UniProtKB:P19327}

Tissue Location

Detected in lymph nodes, thymus and spleen. Detected in activated T-cells, but not in resting T-cells

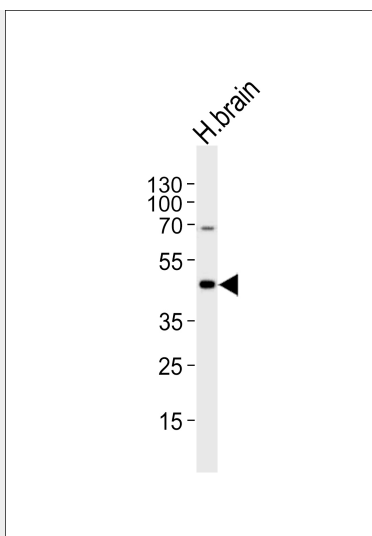
HTR1A Antibody (Center) - Protocols

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

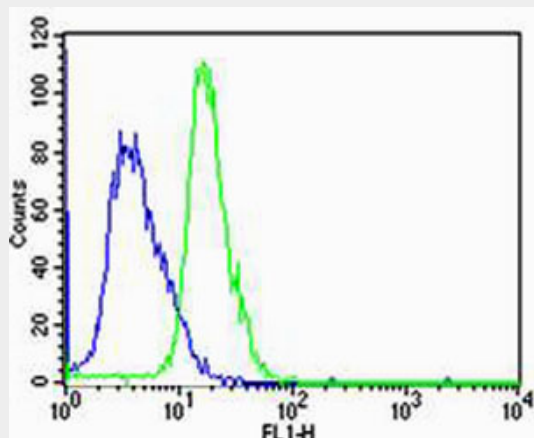
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

HTR1A Antibody (Center) - Images





Western blot analysis of lysate from human brain tissue lysate, using HTR1A Antibody (Center)(Cat. #AP20616c). AP20616c was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.



Flow cytometric analysis of Jurkat cells using HTR1A Antibody (Center)(green, Cat#AP20616c) compared to an isotype control of rabbit IgG(blue). AP20616c was diluted at 1:25 dilution. An Alexa Fluor® 488 goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody.

HTR1A Antibody (Center) - Background

G-protein coupled receptor for 5-hydroxytryptamine (serotonin). Also functions as a receptor for various drugs 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, such as adenylate cyclase. Beta-arrestin family members inhibit signaling via G proteins and mediate activation of alternative signaling pathways. Signaling inhibits adenylate cyclase activity and activates a phosphatidylinositol-calcium second messenger system that regulates the release of Ca(2+) ions from intracellular stores. Plays a role in the regulation of 5-hydroxytryptamine release and in the regulation of dopamine and 5-hydroxytryptamine metabolism. Plays a role in the regulation of dopamine and 5-hydroxytryptamine levels in the brain, and thereby affects neural activity, mood and behavior. Plays a role in the response to angiogenic stimuli.

HTR1A Antibody (Center) - References

Kobilka B.K., et al. Nature 329:75-79(1987).

Saltzman A.G.,et al.Submitted (FEB-1991) to the EMBL/GenBank/DDBJ databases.
Levy F.O.,et al.Submitted (MAY-1992) to the EMBL/GenBank/DDBJ databases.
Kitano T.,et al.Mol. Biol. Evol. 21:936-944(2004).
Puhl H.L. III,et al.Submitted (APR-2002) to the EMBL/GenBank/DDBJ databases.