

HTR5A Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP21178a

Product Information

Application	WB, E
Primary Accession	P47898
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB52192
Calculated MW	40255

Additional Information

Gene ID	3361
Other Names	5-hydroxytryptamine receptor 5A, 5-HT-5, 5-HT-5A, 5-HT5A, Serotonin receptor 5A, HTR5A
Target/Specificity	This HTR5A antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 265-300 amino acids from the Central region of human HTR5A.
Dilution	WB~~1:2000 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	HTR5A Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	HTR5A (HGNC:5300)
Function	G-protein coupled receptor for 5-hydroxytryptamine (serotonin), a biogenic hormone that functions as a neurotransmitter, a hormone and a mitogen (PubMed: 35610220 , PubMed: 35835867 , PubMed: 9865521). Also functions as a receptor for ergot alkaloid derivatives and other psychoactive substances (PubMed: 35835867). Ligand binding causes a conformation change that

triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of downstream effectors (PubMed:[35610220](#), PubMed:[35835867](#), PubMed:[9865521](#)). HTR5A 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:[35610220](#), PubMed:[35835867](#), PubMed:[9865521](#)).

Cellular Location

Cell membrane; Multi-pass membrane protein

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.

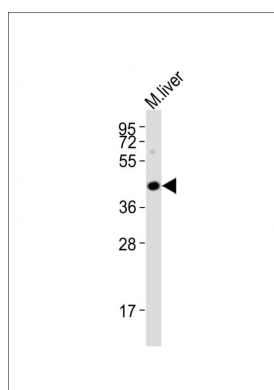
References

Rees S.,et al.FEBS Lett. 355:242-246(1994).

Puhl H.L. III,et al.Submitted (APR-2002) to the EMBL/GenBank/DDBJ databases.

Sjoebloom T.,et al.Science 314:268-274(2006).

Images



Anti-HTR5A Antibody (Center) at 1:2000 dilution + mouse liver lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 40 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.