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HTR5A Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21178a

Product Information

Application	WB, E
Primary Accession	P47898
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Canine, Rabbit, Chicken
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

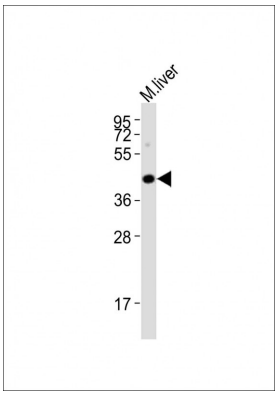
Background

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.
Sjoeblom 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'.