

# HTR5A Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP21178a

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">P47898</a>
<b>Reactivity</b>	Human, Rat, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB52192
<b>Calculated MW</b>	40255

## Additional Information

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<b>Gene ID</b>	3361
<b>Other Names</b>	5-hydroxytryptamine receptor 5A, 5-HT-5, 5-HT-5A, 5-HT5A, Serotonin receptor 5A, HTR5A
<b>Target/Specificity</b>	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.
<b>Dilution</b>	WB~~1:2000 E~~Use at an assay dependent concentration.
<b>Format</b>	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.
<b>Storage</b>	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.
<b>Precautions</b>	HTR5A Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	HTR5A ( <a href="#">HGNC:5300</a> )
<b>Function</b>	G-protein coupled receptor for 5-hydroxytryptamine (serotonin), a biogenic hormone that functions as a neurotransmitter, a hormone and a mitogen (PubMed: <a href="#">35610220</a> , PubMed: <a href="#">35835867</a> , PubMed: <a href="#">9865521</a> ). Also functions as a receptor for ergot alkaloid derivatives and other psychoactive substances (PubMed: <a href="#">35835867</a> ). 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.

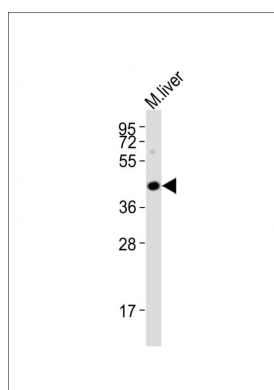
## References

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'.