

# SR-1A Polyclonal Antibody

Catalog # AP72574

## Product Information

Application	WB, IHC-P, IF
Primary Accession	<a href="#">P08908</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	46107

## Additional Information

Gene ID	3350
Other Names	HTR1A; ADRB2RL1; ADRBRL1; 5-hydroxytryptamine receptor 1A; 5-HT-1A; 5-HT1A; G-21; Serotonin receptor 1A
Dilution	WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications. IHC-P~~N/A IF~~1:50~200
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

## Protein Information

Name	HTR1A ( <a href="#">HGNC:5286</a> )
Synonyms	ADRB2RL1, ADRBRL1
Function	<p>G-protein coupled receptor for 5-hydroxytryptamine (serotonin) (PubMed:<a href="#">22957663</a>, PubMed:<a href="#">3138543</a>, PubMed:<a href="#">33762731</a>, PubMed:<a href="#">37935376</a>, PubMed:<a href="#">37935377</a>, PubMed:<a href="#">8138923</a>, PubMed:<a href="#">8393041</a>).</p> <p>Also functions as a receptor for various drugs and psychoactive substances (PubMed:<a href="#">22957663</a>, PubMed:<a href="#">3138543</a>, PubMed:<a href="#">33762731</a>, PubMed:<a href="#">38552625</a>, PubMed:<a href="#">8138923</a>, PubMed:<a href="#">8393041</a>). 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:<a href="#">22957663</a>, PubMed:<a href="#">3138543</a>, PubMed:<a href="#">33762731</a>, PubMed:<a href="#">8138923</a>, PubMed:<a href="#">8393041</a>).</p> <p>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:<a href="#">33762731</a>,</p>

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 anxiogenic stimuli (PubMed:[18476671](#), PubMed:[20363322](#), PubMed:[20945968](#)).

**Cellular Location**

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

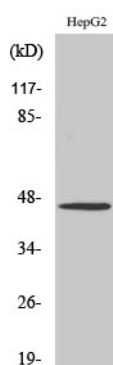
**Tissue Location**

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

## 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 anxiogenic stimuli.

## Images



Western Blot analysis of various cells using SR-1A Polyclonal Antibody diluted at 1 : 500

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