

# SR-1D Polyclonal Antibody

Catalog # AP73851

## Product Information

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Application	WB, IHC-P
Primary Accession	<a href="#">P28221</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	41907

## Additional Information

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Gene ID	3352
Other Names	HTR1D; HTR1DA; HTRL; 5-hydroxytryptamine receptor 1D; 5-HT-1D; 5-HT1D; 5-HT-1D-alpha; Serotonin receptor 1D
Dilution	WB~~Western Blot: 1/500 - 1/2000. IHC-p: 1:100-1:300. ELISA: 1/10000. Not yet tested in other applications. IHC-P~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

## Protein Information

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Name	HTR1D ( <a href="#">HGNC:5289</a> )
Synonyms	HTR1DA, HTRL
Function	<p>G-protein coupled receptor for 5-hydroxytryptamine (serotonin) (PubMed:<a href="#">10452531</a>, PubMed:<a href="#">1565658</a>, PubMed:<a href="#">1652050</a>, PubMed:<a href="#">33762731</a>). Also functions as a receptor for ergot alkaloid derivatives, various anxiolytic and antidepressant drugs and other psychoactive substances (PubMed:<a href="#">10452531</a>, PubMed:<a href="#">1565658</a>, PubMed:<a href="#">1652050</a>, PubMed:<a href="#">33762731</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="#">10452531</a>, PubMed:<a href="#">1565658</a>, PubMed:<a href="#">1652050</a>, PubMed:<a href="#">33762731</a>). HTR1D is coupled to G(i)/G(o) G alpha proteins and mediates inhibitory neurotransmission by inhibiting adenylate cyclase activity (PubMed:<a href="#">33762731</a>). Regulates the release of 5- hydroxytryptamine in the brain, and thereby affects neural activity (PubMed:<a href="#">18476671</a>, PubMed:<a href="#">20945968</a>). May also play a role in regulating the release of other neurotransmitters (PubMed:<a href="#">18476671</a>, PubMed:<a href="#">20945968</a>). May play a role in vasoconstriction (PubMed:<a href="#">18476671</a>,</p>

PubMed:[20945968](#)).

**Cellular Location**

Cell membrane; Multi-pass membrane protein

**Tissue Location**

Detected in brain neocortex and caudate nucleus (at protein level).

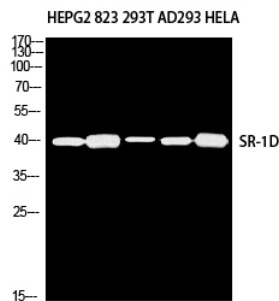
## Background

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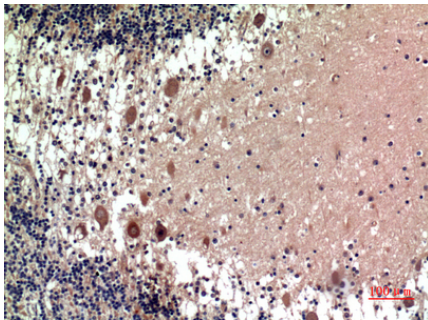
G-protein coupled receptor for 5-hydroxytryptamine (serotonin). Also functions as a receptor for ergot alkaloid derivatives, various anxiolytic and antidepressant drugs and other psychoactive substances. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors, such as adenylate cyclase. Signaling inhibits adenylate cyclase activity. Regulates the release of 5-hydroxytryptamine in the brain, and thereby affects neural activity. May also play a role in regulating the release of other neurotransmitters. May play a role in vasoconstriction.

## Images

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Western blot analysis of HEPG2 823 293T AD293 HELA using SR-1D antibody. Antibody was diluted at 1:500. Secondary antibody was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded human-brain, antibody was diluted at 1:100

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