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SR-1D Polyclonal Antibody

Catalog # AP73851

Product Information

Application	WB, IHC-P, IF, ICC, E
Primary Accession	P28221
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	41907

Additional Information

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~~Western Blot: 1/500 - 1/2000. IHC-p: 1:100-1:300. ELISA: 1/10000. Not yet tested in other applications. IF~~1:50~200 ICC~~N/A E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

Protein Information

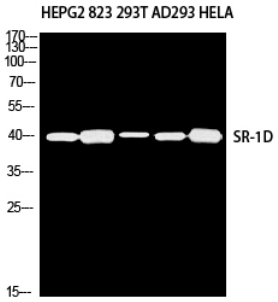
Name	HTR1D (HGNC:5289)
Synonyms	HTR1DA, HTRL
Function	G-protein coupled receptor for 5-hydroxytryptamine (serotonin) (PubMed:10452531, PubMed:1565658, PubMed:1652050, PubMed:33762731). Also functions as a receptor for ergot alkaloid derivatives, various anxiolytic and antidepressant drugs and other psychoactive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

	regulating the release of other neurotransmitters (PubMed:18476671, PubMed:20945968). May play a role in vasoconstriction (PubMed:18476671, PubMed:20945968).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Detected in brain neocortex and caudate nucleus (at protein level).

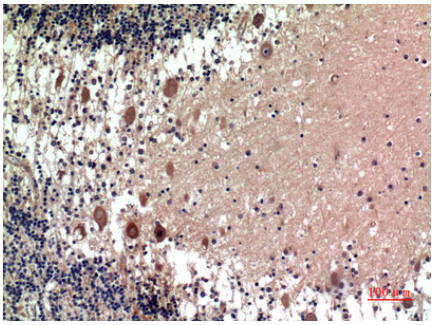
Background

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



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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