10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SR-1D Polyclonal Antibody
Catalog # AP73851

Specification

SR-1D Polyclonal Antibody - Product Information

Application	**WB, IHC-P**
Primary Accession	P28221
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**

SR-1D Polyclonal Antibody - 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~~N/A

Format
Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions
-20℃

SR-1D Polyclonal Antibody - 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).

SR-1D Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SR-1D Polyclonal Antibody - Images

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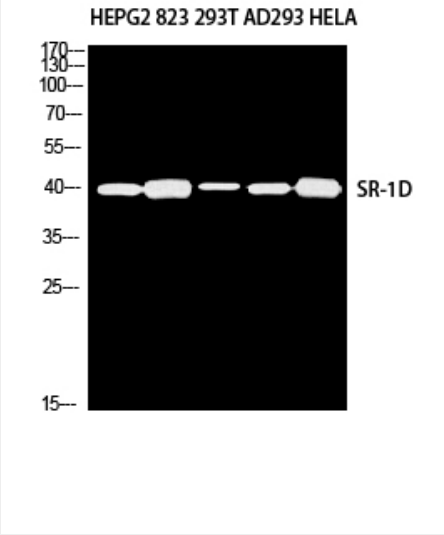
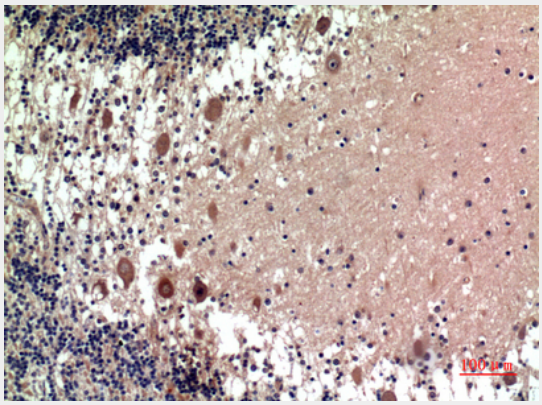
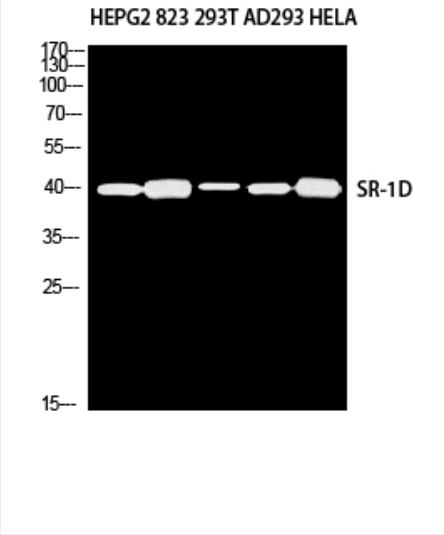


Western blot analysis of HEPG2 823 293T AD293 HELA using SR-1D antibody. Antibody was diluted at 1:500. Secondary antibody was diluted at 1:20000



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



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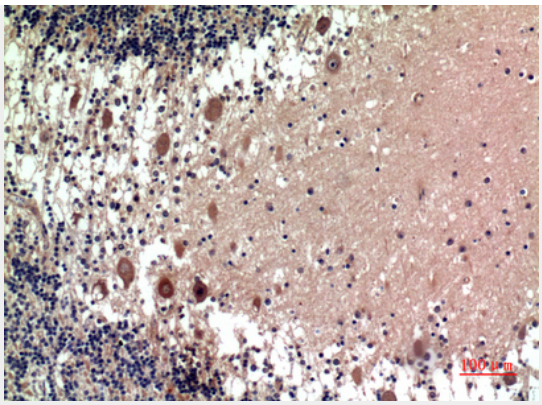

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SR-1D Polyclonal Antibody - Background

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.