

HTR5A / 5-HT5A Receptor Antibody (Cytoplasmic Domain)
Rabbit Polyclonal Antibody
Catalog # ALS10521**Specification****HTR5A / 5-HT5A Receptor Antibody (Cytoplasmic Domain) - Product Information**

| | |
|-------------------|------------------------|
| Application | IHC-P |
| Primary Accession | P47898 |
| Reactivity | Human |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 40kDa KDa |
| Dilution | IHC-P ~ ~ N/A |

HTR5A / 5-HT5A Receptor Antibody (Cytoplasmic Domain) - Additional Information**Gene ID** 3361**Other Names**

5-hydroxytryptamine receptor 5A, 5-HT-5, 5-HT-5A, 5-HT5A, Serotonin receptor 5A, HTR5A

Target/Specificity

Human 5HT5A Receptor. BLAST analysis of the peptide immunogen showed no homology with other human proteins, except PI4KA (50%).

Reconstitution & Storage

Long term: -70°C; Short term: +4°C

Precautions

HTR5A / 5-HT5A Receptor Antibody (Cytoplasmic Domain) is for research use only and not for use in diagnostic or therapeutic procedures.

HTR5A / 5-HT5A Receptor Antibody (Cytoplasmic Domain) - Protein Information**Name** HTR5A ([HGNC:5300](#))**Function**

G-protein coupled receptor for 5-hydroxytryptamine (serotonin), a biogenic hormone that functions as a neurotransmitter, a hormone and a mitogen (PubMed:35610220, PubMed:35835867, PubMed:9865521). Also functions as a receptor for ergot alkaloid derivatives and other psychoactive substances (PubMed:35835867). 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:35835867).

[9865521](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/35610220), PubMed:[35835867](http://www.uniprot.org/citations/35835867), PubMed:[9865521](http://www.uniprot.org/citations/9865521)).

Cellular Location

Cell membrane; Multi-pass membrane protein

Volume

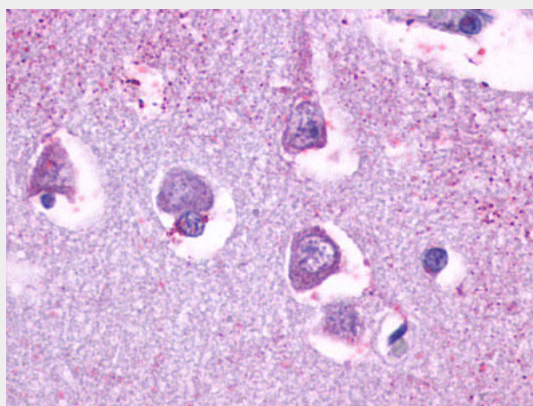
50 µl

HTR5A / 5-HT5A Receptor Antibody (Cytoplasmic Domain) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

HTR5A / 5-HT5A Receptor Antibody (Cytoplasmic Domain) - Images



Anti-5HT5A Receptor antibody ALS10521 IHC of human brain, neurons and glia.

HTR5A / 5-HT5A Receptor Antibody (Cytoplasmic Domain) - 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.

HTR5A / 5-HT5A Receptor Antibody (Cytoplasmic Domain) - 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.

Sjoeblom T.,et al.Science 314:268-274(2006).