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# 5HT2A Receptor (aa296-309) Antibody (internal region)

**Peptide-affinity purified goat antibody**
**Catalog # AF3854a**

## Specification

### 5HT2A Receptor (aa296-309) Antibody (internal region) - Product Information

| | |
|---|---|
| Application | **E** |
| Primary Accession | P28223 |
| Other Accession | NP_000612.1, NP_001159419.1, 3356 |
| Predicted | **Human** |
| Host | **Goat** |
| Clonality | **Polyclonal** |
| Concentration | **0.5 mg/ml** |
| Isotype | **IgG** |
| Calculated MW | **52603** |

### 5HT2A Receptor (aa296-309) Antibody (internal region) - Additional Information

**Gene ID** 3356

**Other Names**
5-hydroxytryptamine receptor 2A, 5-HT-2, 5-HT-2A, Serotonin receptor 2A, HTR2A, HTR2

**Format**
0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**
5HT2A Receptor (aa296-309) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

### 5HT2A Receptor (aa296-309) Antibody (internal region) - Protein Information

**Name** HTR2A

**Synonyms** HTR2

**Function**
G-protein coupled receptor for 5-hydroxytryptamine (serotonin) (PubMed:<a href="http://www.uniprot.org/citations/1330647" target="_blank">1330647</a>, PubMed:<a href="http://www.uniprot.org/citations/18703043" target="_blank">18703043</a>, PubMed:<a href="http://www.uniprot.org/citations/19057895" target="_blank">19057895</a>). Also functions as a receptor for various drugs and psychoactive substances, including mescaline, psilocybin, 1-(2,5-dimethoxy-4-iodophenyl)-2- aminopropane (DOI) and lysergic acid diethylamide

(LSD) (PubMed:<a href="http://www.uniprot.org/citations/28129538" target="_blank">28129538</a>). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors (PubMed:<a href="http://www.uniprot.org/citations/28129538" target="_blank">28129538</a>). Beta-arrestin family members inhibit signaling via G proteins and mediate activation of alternative signaling pathways (PubMed:<a href="http://www.uniprot.org/citations/28129538" target="_blank">28129538</a>). Signaling activates phospholipase C and a phosphatidylinositol-calcium second messenger system that modulates the activity of phosphatidylinositol 3-kinase and promotes the release of Ca(2+) ions from intracellular stores (PubMed:<a href="http://www.uniprot.org/citations/18703043" target="_blank">18703043</a>, PubMed:<a href="http://www.uniprot.org/citations/28129538" target="_blank">28129538</a>). Affects neural activity, perception, cognition and mood (PubMed:<a href="http://www.uniprot.org/citations/18297054" target="_blank">18297054</a>). Plays a role in the regulation of behavior, including responses to anxiogenic situations and psychoactive substances. Plays a role in intestinal smooth muscle contraction, and may play a role in arterial vasoconstriction.

**Cellular Location**
Cell membrane; Multi-pass membrane protein. Cell projection, dendrite {ECO:0000250|UniProtKB:P35363}. Cell projection, axon {ECO:0000250|UniProtKB:P14842}. Cytoplasmic vesicle {ECO:0000250|UniProtKB:P14842}. Membrane, caveola {ECO:0000250|UniProtKB:P14842}. Presynapse {ECO:0000250|UniProtKB:P14842}

**Tissue Location**
Detected in brain cortex (at protein level). Detected in blood platelets.

## 5HT2A Receptor (aa296-309) Antibody (internal region) - 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

## 5HT2A Receptor (aa296-309) Antibody (internal region) - Images

## 5HT2A Receptor (aa296-309) Antibody (internal region) - Background

This antibody is expected to recognize both reported isoforms (NP_000612.1; NP_001159419.1).

## 5HT2A Receptor (aa296-309) Antibody (internal region) - References

Hypomethylation of the serotonin receptor type-2A Gene (HTR2A) at T102C polymorphic site in DNA derived from the saliva of patients with schizophrenia and bipolar disorder. Ghadirivasfi M, Nohesara S, Ahmadkhaniha HR, Eskandari MR, Mostafavi S, Thiagalingam S, Abdolmaleky HM. Am J Med Genet B Neuropsychiatr Genet. 2011 Jul;156B(5):536-45. PMID: 21598376