

HTR2A Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF2755a**Specification**

HTR2A Antibody (internal region) - Product Information

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

HTR2A 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

Dilution

FC~~1:10~50

E~~N/A

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

HTR2A Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

HTR2A Antibody (internal region) - Protein Information**Name** HTR2A ([HGNC:5293](#))**Synonyms** HTR2**Function**

G-protein coupled receptor for 5-hydroxytryptamine (serotonin) (PubMed:1330647, PubMed:<a

[18703043](http://www.uniprot.org/citations/18703043), PubMed: [19057895](http://www.uniprot.org/citations/19057895), PubMed: [21645528](http://www.uniprot.org/citations/21645528), PubMed: [22300836](http://www.uniprot.org/citations/22300836), PubMed: [35084960](http://www.uniprot.org/citations/35084960), PubMed: [38552625](http://www.uniprot.org/citations/38552625)). 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: [28129538](http://www.uniprot.org/citations/28129538), PubMed: [35084960](http://www.uniprot.org/citations/35084960)). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of downstream effectors (PubMed: [28129538](http://www.uniprot.org/citations/28129538), PubMed: [35084960](http://www.uniprot.org/citations/35084960)). HTR2A is coupled to G(q)/G(11) G alpha proteins and activates phospholipase C-beta, releasing diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3) second messengers that modulate the activity of phosphatidylinositol 3-kinase and promote the release of Ca(2+) ions from intracellular stores, respectively (PubMed: [18703043](http://www.uniprot.org/citations/18703043), PubMed: [28129538](http://www.uniprot.org/citations/28129538), PubMed: [35084960](http://www.uniprot.org/citations/35084960)). Beta-arrestin family members inhibit signaling via G proteins and mediate activation of alternative signaling pathways (PubMed: [28129538](http://www.uniprot.org/citations/28129538), PubMed: [35084960](http://www.uniprot.org/citations/35084960)). Affects neural activity, perception, cognition and mood (PubMed: [18297054](http://www.uniprot.org/citations/18297054)). 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 (By similarity).

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

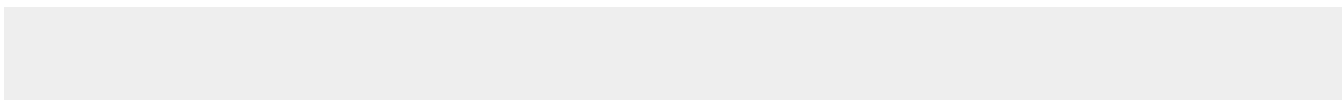
Detected in brain cortex (at protein level). Detected in blood platelets.

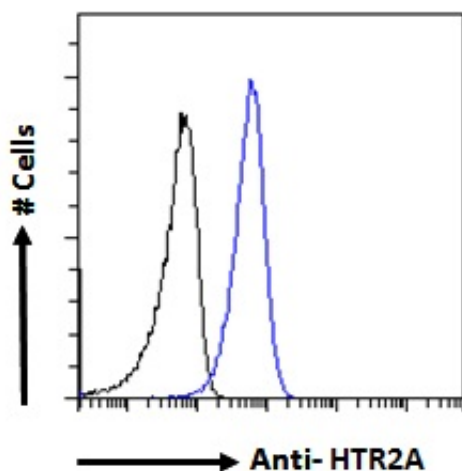
HTR2A Antibody (internal region) - Protocols

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

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

HTR2A Antibody (internal region) - Images





AF2755a Flow cytometric analysis of paraformaldehyde fixed A549 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) fol

HTR2A Antibody (internal region) - References

Effects of the serotonin 5-HT2A and 5-HT2C receptor ligands on the discriminative stimulus effects of nicotine in rats. Zaniewska M, McCreary AC, Przegalinski E, Filip M. Eur J Pharmacol. 2007 Oct 1;571(2-3):156-65. Epub 2007 Jun 13. PMID: 17617403