

Anti-5HT2A Receptor Antibody

Catalog # ABO10698

Specification

Anti-5HT2A Receptor Antibody - Product Information

Application WB, IHC
Primary Accession P28223
Host Rabbit

Reactivity Human, Mouse,

Rat

Clonality Polyclonal Format Lyophilized

Description

Rabbit IgG polyclonal antibody for 5-hydroxytryptamine receptor 2A(HTR2A) detection. Tested with WB, IHC-P in Human:Mouse:Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-5HT2A Receptor Antibody - Additional Information

Gene ID 3356

Other Names

5-hydroxytryptamine receptor 2A, 5-HT-2, 5-HT-2A, Serotonin receptor 2A, HTR2A, HTR2

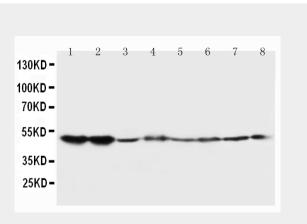
Calculated MW 52603 MW KDa

Application Details

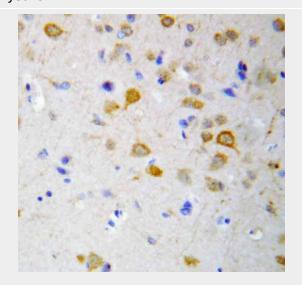
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Mouse, Rat, Human, By Heat
br>Western blot, 0.1-0.5 μ g/ml, Human, Mouse, Rat
br>

Subcellular Localization

Cell membrane; Multi-pass membrane protein. Cell projection, dendrite . Cell projection, axon . Cytoplasmic vesicle . Membrane, caveola . Localizes to the postsynaptic thickening of axo-dendritic synapses. .



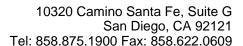
Anti-5HT2A Receptor antibody, ABO10698, Western blottingLane 1: Rat Brain Tissue LysateLane 2: Rat Brain Tissue LysateLane 3: Mouse Brain Tissue LysateLane 4: Mouse Brain Tissue LysateLane 5: U87 Cell LysateLane 6: SMMC Cell LysateLane 7: HT1080 Cell LysateLane 8: COLO320 Cell Lysate



Anti-5HT2A Receptor antibody, ABO10698, IHC(P)IHC(P): Rat Brain Tissue

Anti-5HT2A Receptor Antibody - Background

The mammalian HTR2A(5-HT2A receptor) is a subtype of the 5-HT2 receptor that belongs to the serotonin receptor family and is a G





Tissue Specificity

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

Protein Name

5-hydroxytryptamine receptor 2A(5-HT-2/5-HT-2A)

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human 5HT2A Receptor(418-432aa AYKSSQLQMGQKKNS), different from the mouse sequence by one amino acid.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage At -20°C for one

year. After
r°Constitution, at
4°C for one
month. It°Can
also be aliquotted
and stored frozen
at -20°C for a
longer time.Avoid
repeated freezing
and thawing.

Sequence Similarities

Belongs to the G-protein coupled receptor 1 family.

Anti-5HT2A Receptor Antibody - Protein Information

Name HTR2A

Synonyms HTR2

Function

G-protein coupled receptor for 5-hydroxytryptamine (serotonin) (PubMed:1330647, PubMed:<a href="http://www.uniprot.org/ci tations/18703043"

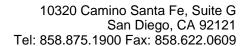
protein-coupled receptor(GPCR). This is the main excitatory receptor subtype among the GPCRs for serotonin(5-HT), although 5-HT2A may also have an inhibitory effect on certain areas such as the visual cortex and the orbit frontal cortex. This receptor was given importance first as the target of psychedelic drugs like LSD. Later it came back to prominence because it was also found to be mediating, at least partly, the action of many antipsychotic drugs, especially the atypical ones.5-HT2A also happens to be a necessary receptor for the spread of the human polyoma virus called JC virus. Sparkes et al.(1991) concluded that the gene is located on 13q14-q21 in man and on chromosome 14 in the mouse.



target=" blank">18703043, PubMed:19057895). Also functions as a receptor for various drugs and psychoactive substances, including mescaline, psilocybin, 1-(2,5-dimethoxy-4-iodophenyl)-2aminopropane (DOI) and lysergic acid diethylamide (LSD) (PubMed:28129538). Ligand binding causes a conformation change that triggers signaling via quanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors (PubMed:28129538). Beta-arrestin family members inhibit signaling via G proteins and mediate activation of alternative signaling pathways (PubMed:28129538). 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:18703043, PubMed:28129538). Affects neural activity, perception, cognition and mood (PubMed: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.

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}. Cell junction, synapse, presynapse





{ECO:0000250|UniProtKB:P14842}

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

Anti-5HT2A Receptor 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