# ARG41316
# anti-5HT2A Receptor antibody

Package: 50 µg
Store at: -20°C

## Summary

| | |
|---|---|
| Product Description | Rabbit Polyclonal antibody recognizes 5HT2A Receptor |
| Tested Reactivity | Hu, Ms, Rat |
| Tested Application | IHC-P, WB |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | IgG |
| Target Name | 5HT2A Receptor |
| Species | Human |
| Immunogen | Synthetic peptide corresponding to aa. 418-432 of Human 5HT2A Receptor. (AYKSSQLQMGQKKNS) |
| Conjugation | Un-conjugated |
| Alternate Names | 5-HT-2; 5-HT2A; 5-HT-2A; HTR2; Serotonin receptor 2A; 5-hydroxytryptamine receptor 2A |

## Application Instructions

Application table

| Application | Dilution |
|---|---|
| IHC-P | 1:200 - 1:1000 |
| WB | 1:500 - 1:2000 |

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Observed Size: 53 kDa

## Properties

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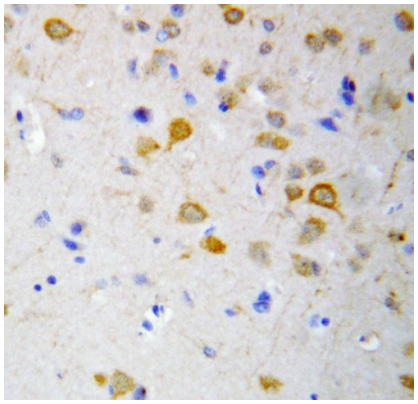
|---|---|
| Form | Liquid |
| Purification | Affinity purification with immunogen. |
| Buffer | 0.2% Na2HPO4, 0.9% NaCl, 0.05% Thimerosal, 0.05% Sodium azide and 5% BSA. |
| Preservative | 0.05% Thimerosal and 0.05% Sodium azide |
| Stabilizer | 5% BSA |
| Concentration | 0.5 mg/ml |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

## Bioinformation

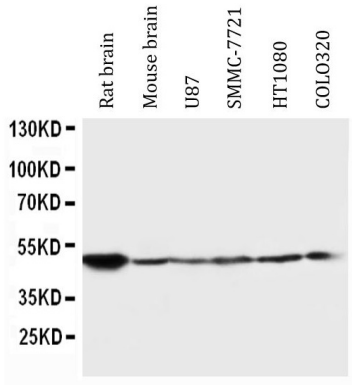
| | |
|---|---|
| Gene Symbol | HTR2A |
| Gene Full Name | 5-hydroxytryptamine (serotonin) receptor 2A, G protein-coupled |
| Background | This gene encodes one of the receptors for serotonin, a neurotransmitter with many roles. Mutations in this gene are associated with susceptibility to schizophrenia and obsessive-compulsive disorder, and are also associated with response to the antidepressant citalopram in patients with major depressive disorder (MDD). MDD patients who also have a mutation in intron 2 of this gene show a significantly reduced response to citalopram as this antidepressant downregulates expression of this gene. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2009] |
| Function | G-protein coupled receptor for 5-hydroxytryptamine (serotonin). 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). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors. Beta-arrestin family members inhibit signaling via G proteins and mediate activation of alternative signaling pathways. 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. Affects neural activity, perception, cognition and mood. 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. [UniProt] |
| Calculated Mw | 53 kDa |
| Cellular Localization | Cell membrane; Multi-pass membrane protein. Cell projection, dendrite. Cell projection, axon. Cytoplasmic vesicle. Membrane, caveola. Note=Localizes to the postsynaptic thickening of axo-dendritic synapses. [UniProt] |

## Images



ARG41316 anti-5HT2A Receptor antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat brain tissue stained with ARG41316 anti-5HT2A Receptor antibody.




ARG41316 anti-5HT2A Receptor antibody WB image

Western blot: Rat brain, Mouse brain, U87, SMMC-7721, HT1080 and COLO320 cell lysates stained with ARG41316 anti-5HT2A Receptor antibody.