# ARG44014
# anti-5HT2A Receptor antibody

Package: 100 µl
Store at: -20°C

## Summary

| | |
|---|---|
| Product Description | Rabbit Polyclonal antibody recognizes 5HT2A Receptor |
| Tested Reactivity | Hu, Ms |
| Tested Application | ICC/IF, WB |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | IgG |
| Target Name | 5HT2A Receptor |
| Species | Human |
| Immunogen | Synthetic peptide corresponding to aa. 1-105 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 |
|---|---|
| ICC/IF | 1:50 - 1:200 |
| WB | 1:500 - 1:1000 |

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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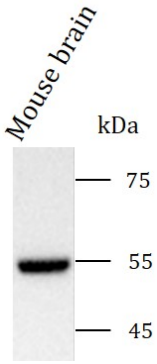
|---|---|
| Form | Liquid |
| Purification | Affinity purification. |
| Buffer | PBS (pH7.3) with 0.05% proclin300 and 50% glycerol |
| Preservative | 0.05% proclin300 |
| Stabilizer | 50% glycerol |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term 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

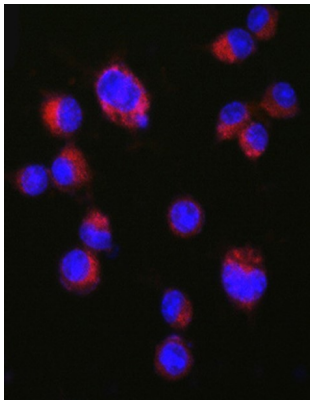
| | |
|---|---|
| Gene Symbol | HTR2A |
| Gene Full Name | 5-hydroxytryptamine (serotonin) receptor 2A, G protein-coupled |
| Background | This gene encodes one of the receptors for serotonin, a neurotransmitter with many roles. Mutations in this gene are associated with susceptibility to schizophrenia 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




ARG44014 anti-5HT2A Receptor antibody WB image

Western blot: Mouse brain with ARG44014 anti-5HT2A Receptor antibody at 1:1000 dilution.



ARG44014 anti-5HT2A Receptor antibody ICC/IF image

Immunofluorescence: Neuro-2a cells stained with ARG44014 anti-5HT2A Receptor at 1:50 dilution.

ARG44014 anti-5HT2A Receptor antibody WB image

Western blot: SH-SY5Y with ARG44014 anti-5HT2A Receptor antibody at 1:1000 dilution.