

Anti-5-HT2A Antibody

Catalog # AP53685

Product Information

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|-------------------|------------------------|
| Application | WB |
| Primary Accession | P28223 |
| Reactivity | Human, Mouse, Rat |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 52603 |

Additional Information

| | |
|--------------------|---|
| Gene ID | 3356 |
| Other Names | HTR2; 5-hydroxytryptamine receptor 2A; 5-HT-2; 5-HT-2A; Serotonin receptor 2A |
| Target/Specificity | Recognizes endogenous levels of 5-HT2A protein. |
| Dilution | WB~~1/500 - 1/1000 |
| Format | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide. |
| Storage | Store at -20 °C.Stable for 12 months from date of receipt |

Protein Information

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|----------|---|
| Name | HTR2A (HGNC:5293) |
| Synonyms | HTR2 |
| Function | G-protein coupled receptor for 5-hydroxytryptamine (serotonin) (PubMed: 1330647 , PubMed: 18703043 , PubMed: 19057895 , PubMed: 21645528 , PubMed: 22300836 , PubMed: 35084960 , PubMed: 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 , PubMed: 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 , PubMed: 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](#), PubMed:[28129538](#), PubMed:[35084960](#)). Beta-arrestin family members inhibit signaling via G proteins and mediate activation of alternative signaling pathways (PubMed:[28129538](#), PubMed:[35084960](#)). 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 (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}

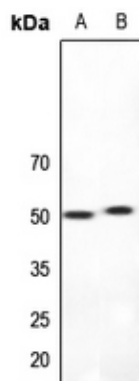
Tissue Location

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

Background

Rabbit polyclonal antibody to 5-HT2A

Images



Western blot analysis of 5-HT2A expression in mouse kidney (A), rat kidney (B) whole cell lysates.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.