

Product Name: SR-2A Rabbit Polyclonal Antibody
Catalog #: APRab18247



Summary

| | |
|------------------------|----------------------------------|
| Production Name | SR-2A Rabbit Polyclonal Antibody |
| Description | Rabbit Polyclonal Antibody |
| Host | Rabbit |
| Application | IHC,IF,ELISA |
| Reactivity | Human |

Performance

| | |
|---------------------|--|
| Conjugation | Unconjugated |
| Modification | Unmodified |
| Isotype | IgG |
| Clonality | Polyclonal |
| Form | Liquid |
| Storage | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |
| Buffer | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N. |
| Purification | Affinity purification |

Immunogen

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|--------------------------|--|
| Gene Name | HTR2A |
| Alternative Names | HTR2A; HTR2; 5-hydroxytryptamine receptor 2A; 5-HT-2; 5-HT-2A; Serotonin receptor 2A |
| Gene ID | 3356.0 |
| SwissProt ID | P28223.The antiserum was produced against synthesized peptide derived from human 5-HT-2A. AA range:422-471 |

Application

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|-------------------------|--|
| Dilution Ratio | IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:5000. Not yet tested in other applications. |
| Molecular Weight | |

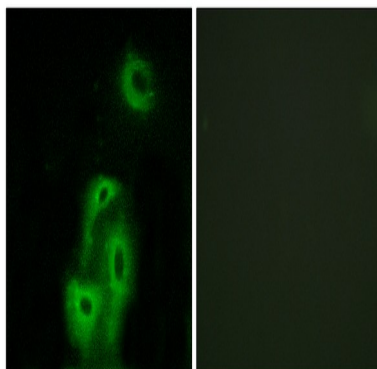
Background

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],domain:The PDZ domain-binding motif is involved in the interaction with INADL, CASK, APBA1, DLG1 and DLG4.,function:This is one of the several different receptors for 5-hydroxytryptamine (serotonin), a biogenic hormone that functions as a neurotransmitter, a hormone, and a mitogen. This receptor mediates its action by association with G proteins that activate a phosphatidylinositol-calcium second messenger system. This receptor is involved in tracheal smooth muscle contraction, bronchoconstriction, and control of aldosterone production.,online information:The Singapore human mutation and polymorphism database,similarity:Belongs to the G-protein coupled receptor 1 family.,subcellular location:Localizes to the post-synaptic thickening of axo-dendritic synapses.,subunit:Interacts with MPDZ and INADL. May interact with MPP3, PRDX6, DLG4, DLG1, CASK, APBA1 and MAGI2.,

Research Area

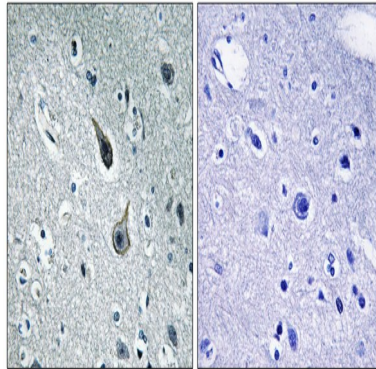
Calcium;Neuroactive ligand-receptor interaction;Gap junction;

Image Data



Immunofluorescence analysis of A549 cells, using 5-HT-2A Antibody. The picture on the right is blocked with the synthesized peptide.

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Immunohistochemistry analysis of paraffin-embedded human brain tissue, using 5-HT-2A Antibody. The picture on the right is blocked with the synthesized peptide.

Note

For research use only.