



SR-2A Polyclonal Antibody

Catalog No	BYab-12814
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	IHC;IF;ELISA
Gene Name	HTR2A
Protein Name	5-hydroxytryptamine receptor 2A
Immunogen	The antiserum was produced against synthesized peptide derived from human 5-HT-2A. AA range:422-471
Specificity	SR-2A Polyclonal Antibody detects endogenous levels of SR-2A protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/5000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	HTR2A; HTR2; 5-hydroxytryptamine receptor 2A; 5-HT-2; 5-HT-2A; Serotonin receptor 2A
Observed Band	
Cell Pathway	Cell membrane ; Multi-pass membrane protein . Cell projection, dendrite . Cell projection, axon . Cytoplasmic vesicle . Membrane, caveola . Cell junction, synapse, presynapse .
Tissue Specificity	Detected in brain cortex (at protein level). Detected in blood platelets.
Function	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

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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.,

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],

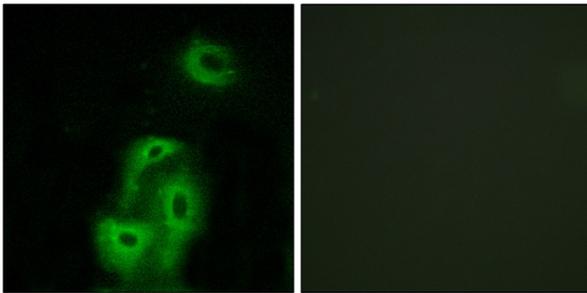
matters needing attention

Avoid repeated freezing and thawing!

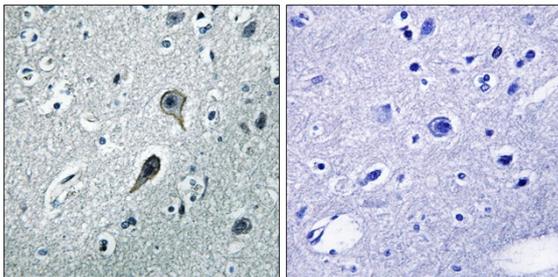
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



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



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

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