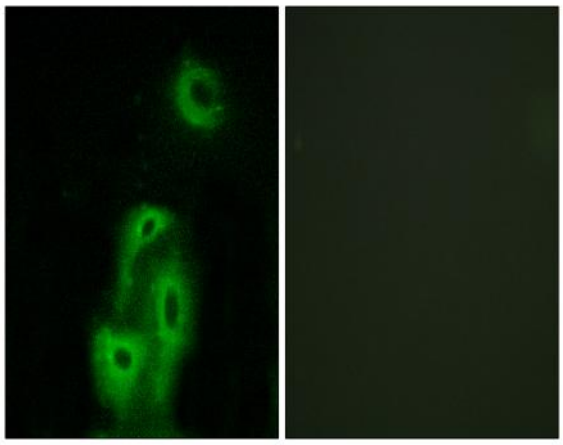
Best Tools for immunology Research

SR-2A Polyclonal Antibody

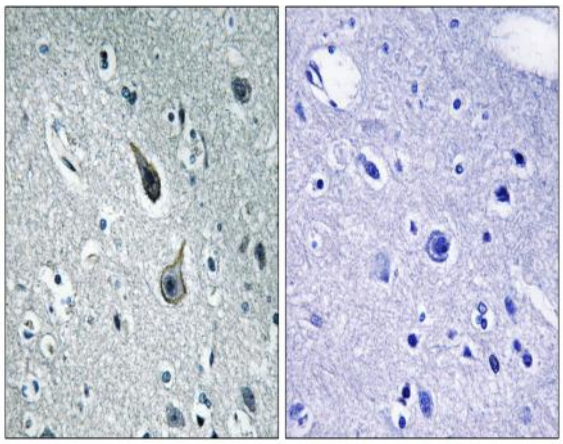
Catalog No :	YT4396
Reactivity :	Human
Applications :	IHC;IF;ELISA
Target :	SR-2A
Fields :	>>Calcium signaling pathway;>>Neuroactive ligand-receptor interaction;>>Gap junction;>>Serotonergic synapse;>>Inflammatory mediator regulation of TRP channels
Gene Name :	HTR2A
Protein Name :	5-hydroxytryptamine receptor 2A
Human Gene Id :	3356
Human Swiss Prot No :	P28223
Mouse Swiss Prot No :	P35363
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
Dilution :	IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:5000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	53kD
Cell Pathway :	Calcium;Neuroactive ligand-receptor interaction;Gap junction;
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 :	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.,
Subcellular Location :	Cell membrane ; Multi-pass membrane protein . Cell projection, dendrite . Cell projection, axon . Cytoplasmic vesicle . Membrane, caveola . Cell junction, synapse, presynapse .
Expression :	Detected in brain cortex (at protein level). Detected in blood platelets.

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.