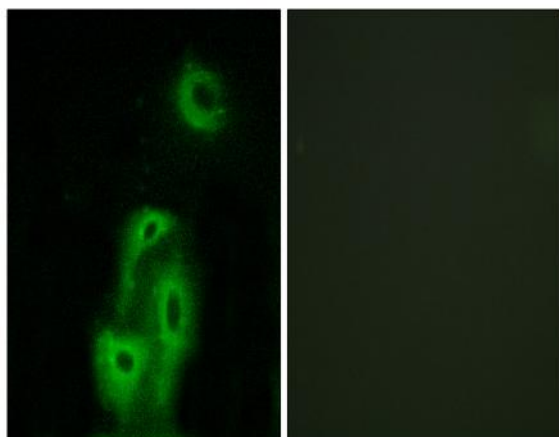


## SR-2A Polyclonal Antibody

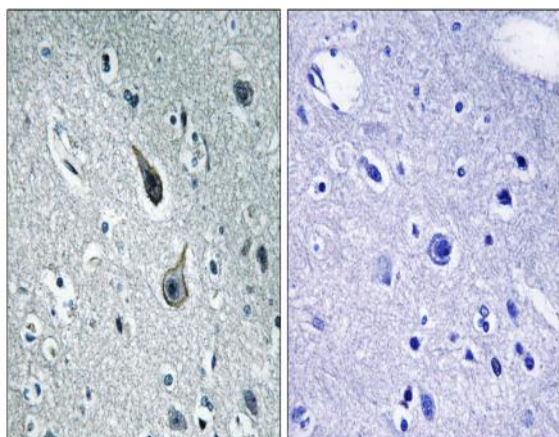
<b>Catalog No :</b>	YT4396
<b>Reactivity :</b>	Human
<b>Applications :</b>	IHC;IF;ELISA
<b>Target :</b>	SR-2A
<b>Fields :</b>	>>Calcium signaling pathway;>>Neuroactive ligand-receptor interaction;>>Gap junction;>>Serotonergic synapse;>>Inflammatory mediator regulation of TRP channels
<b>Gene Name :</b>	HTR2A
<b>Protein Name :</b>	5-hydroxytryptamine receptor 2A
<b>Human Gene Id :</b>	3356
<b>Human Swiss Prot No :</b>	P28223
<b>Mouse Swiss Prot No :</b>	P35363
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human 5-HT-2A. AA range:422-471
<b>Specificity :</b>	SR-2A Polyclonal Antibody detects endogenous levels of SR-2A protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:5000. Not yet tested in other applications.
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml

<b>Storage Stability :</b>	<u>-15°C to -25°C/1 year(Do not lower than -25°C)</u>
<b>Molecularweight :</b>	<u>53kD</u>
<b>Cell Pathway :</b>	<u>Calcium;Neuroactive ligand-receptor interaction;Gap junction;</u>
<b>Background :</b>	<u>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],</u>
<b>Function :</b>	<u>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.,</u>
<b>Subcellular Location :</b>	<u>Cell membrane ; Multi-pass membrane protein . Cell projection, dendrite . Cell projection, axon . Cytoplasmic vesicle . Membrane, caveola . Cell junction, synapse, presynapse .</u>
<b>Expression :</b>	<u>Detected in brain cortex (at protein level). Detected in blood platelets.</u>
<b>Sort :</b>	<u>16578</u>
<b>No4 :</b>	<u>1</u>
<b>Host :</b>	<u>Rabbit</u>
<b>Modifications :</b>	<u>Unmodified</u>

## 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.