



## Rabbit Anti-5HT2A Receptor antibody

SL12049R

<b>Product Name:</b>	5HT2A Receptor
<b>Chinese Name:</b>	5-羟色胺受体2A抗体
<b>Alias:</b>	SR-2A; 5 HT 2; 5 HT 2A; 5 HT2 receptor; 5 HT2A; 5 hydroxytryptamine receptor 2A; 5-HT-2; 5-HT-2A; 5-hydroxytryptamine 2A receptor; 5-hydroxytryptamine receptor 2A; 5HT2A HUMAN; HTR 2; HTR 2A; HTR2; HTR2A; Serotonin receptor 2A.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Sheep,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	53kDa
<b>Cellular localization:</b>	The cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human 5HT2A Receptor:51-150/471<Extracellular>
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	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:**

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.

**Subunit:**

Interacts with MPDZ and INADL. May interact with MPP3, PRDX6, DLG4, DLG1, CASK, APBA1 and MAGI2.

**Subcellular Location:**

Cell membrane. Localizes to the post-synaptic thickening of axo-dendritic synapses.

**Similarity:**

Belongs to the G-protein coupled receptor 1 family.

**SWISS:**

P28223

**Gene ID:**

3356

**Database links:**

[Entrez Gene: 3356](#) Human

[Entrez Gene: 15558](#) Mouse

[Entrez Gene: 29595](#) Rat

[Omim: 182135](#) Human

[SwissProt: P28223](#) Human

[SwissProt: P35363](#) Mouse

[SwissProt: P14842](#) Rat

[Unigene: 654586](#) Human

[Unigene: 72630](#) Human

[Unigene: 214351](#) Mouse

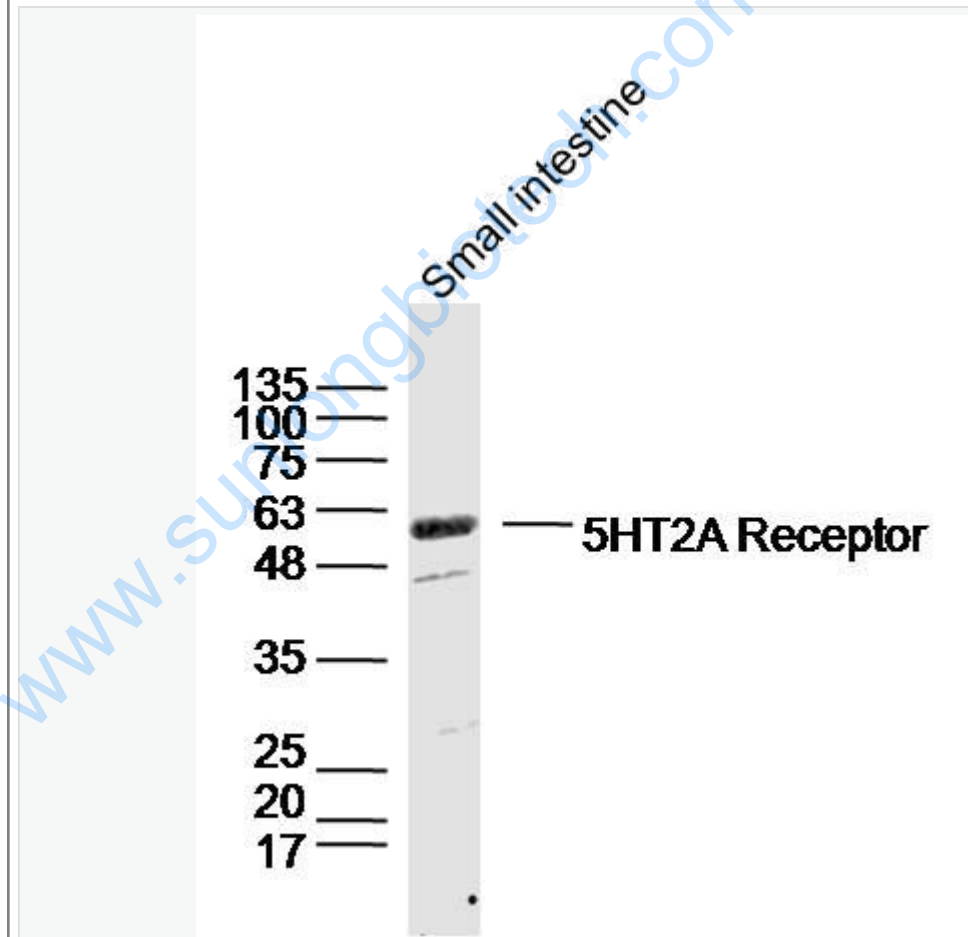
[Unigene: 10294](#) Rat

[Unigene: 146756](#) Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



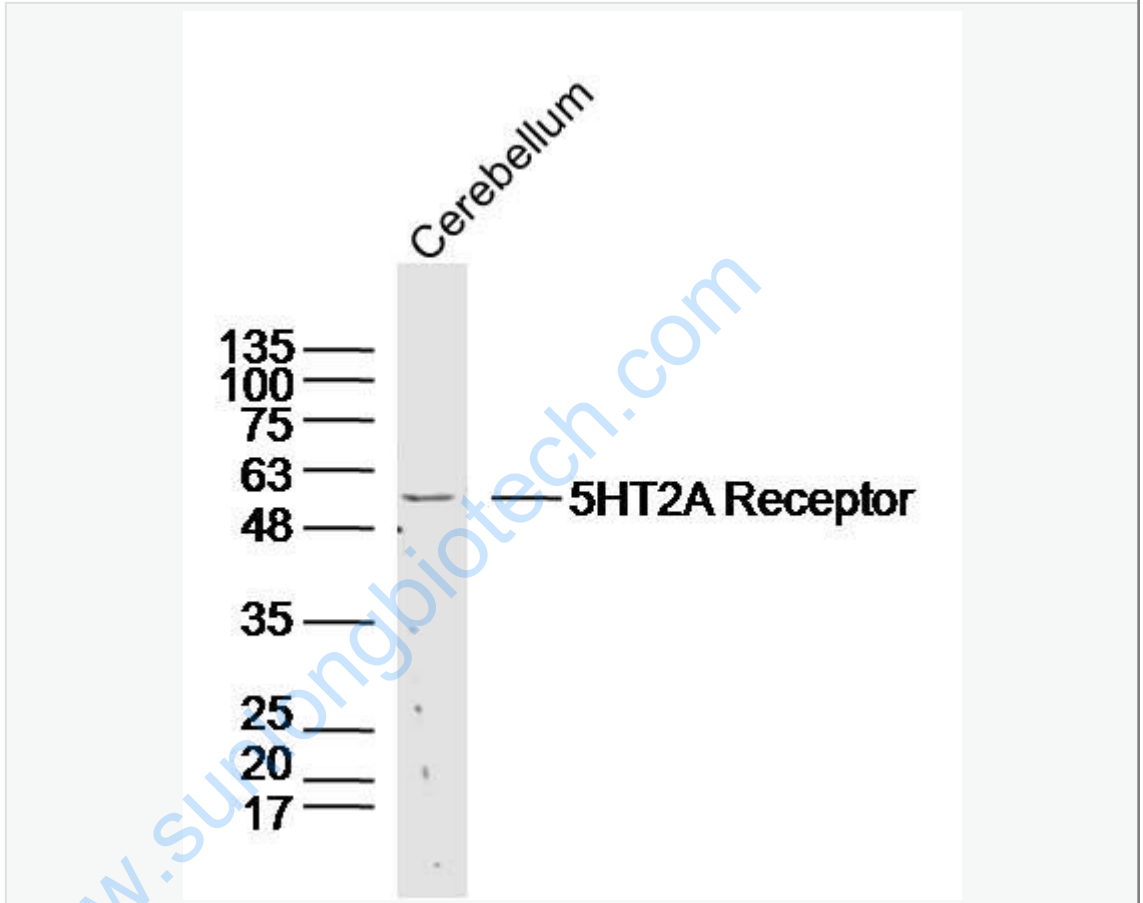
Sample: Small intestine (Mouse) Lysate at 40 ug

Primary: Anti-5HT2A Receptor (SL12049R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 53 kD

Observed band size: 53 kD



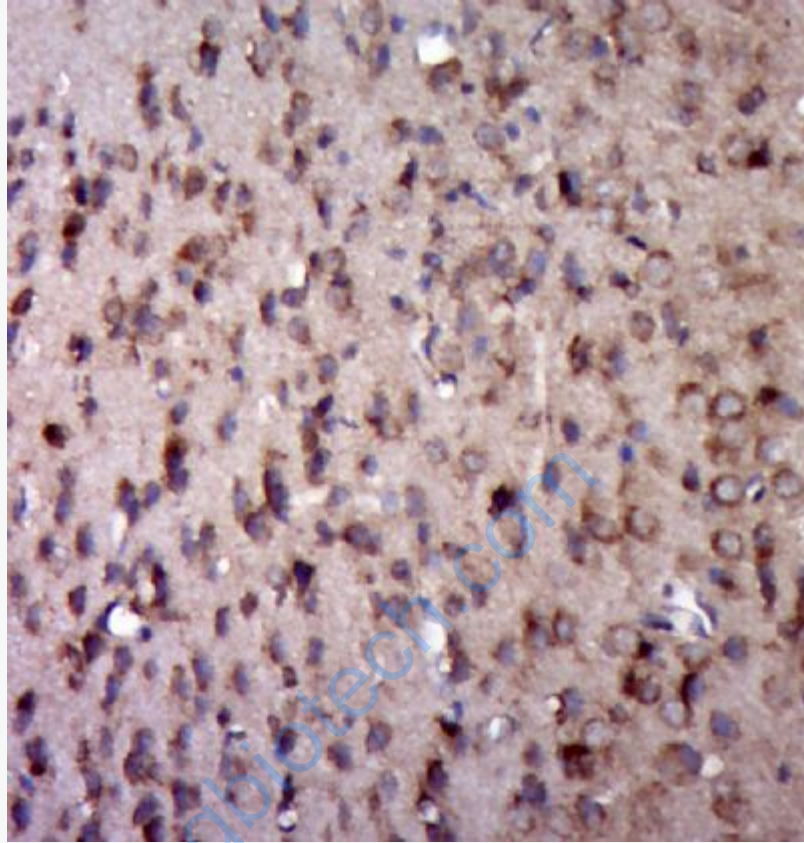
Sample: Cerebellum (Mouse) Lysate at 40 ug

Primary: Anti-5HT2A Receptor (SL12049R) at 1/300 dilution

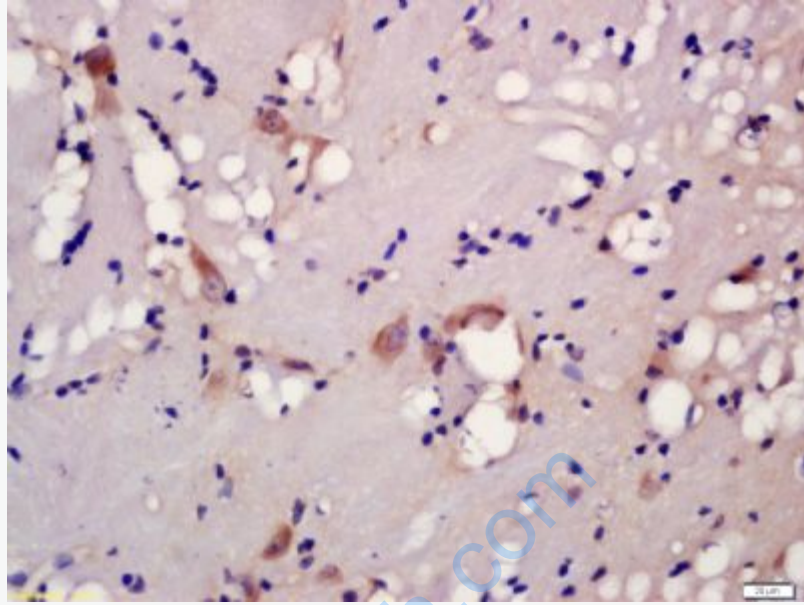
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 53 kD

Observed band size: 53 kD



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (5HT2A Receptor) Polyclonal Antibody, Unconjugated (SL12049R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;  
Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;  
Incubation: Anti-5HT2A Polyclonal Antibody, Unconjugated(SL12049R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining