

Rabbit Anti-5HT2A Receptor antibody

SL12049R

Product Name 5HT2A Receptor

Chinese Name 5-羟色胺受体 2A 抗体

Alias 5HT2A_HUMAN; 5-hydroxytryptamine receptor 2A; HTR2A; HTR2; 5-HT-2; 5-HT-2A; Serotonin receptor 2A;

Research Area Cardiovascular Cell biology Neurobiology The cell membrane 受体 G protein-coupled receptor The new supersedes the old G protein signal

Immunogen Species Rabbit

Clonality Polyclonal

React Species Human,Mouse,Rat(predicted:Dog,Pig,Cow,Horse,Sheep)
WB=1:500-2000,IHC-P=1:100-500,IF=1:100-500,IHC-F=1:100-500 (Paraffin sections need antigen repair)

Applications not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 53kDa

Cellular localization The cell membrane

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human 5HT2A Receptor: 51-150/471 <Extracellular>

Lsotype IgG

Purification affinity purified by Protein A

Buffer Solution 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

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

PubMed [PubMed](#)

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.

**Product
Detail**

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

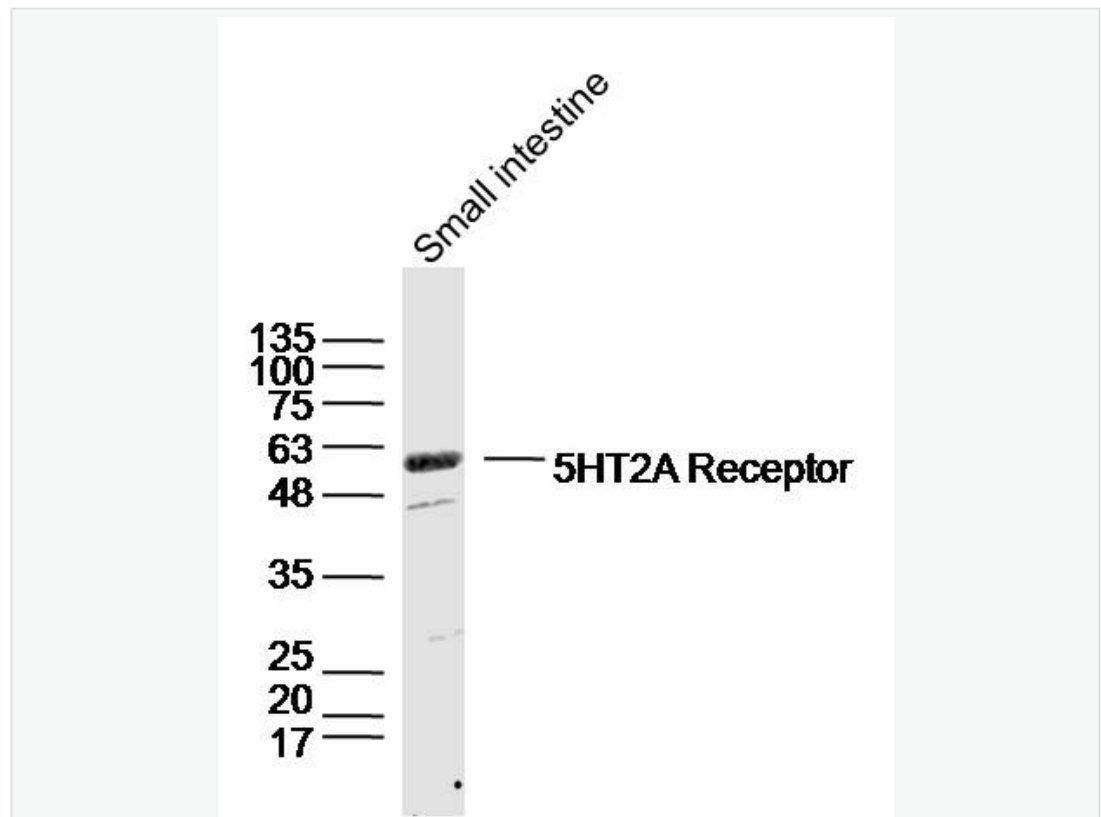
[Unigene: 72630](#) Human

[Unigene: 214351](#) Mouse

[Unigene: 10294](#) Rat

[Unigene: 146756](#) Rat

Product
Picture



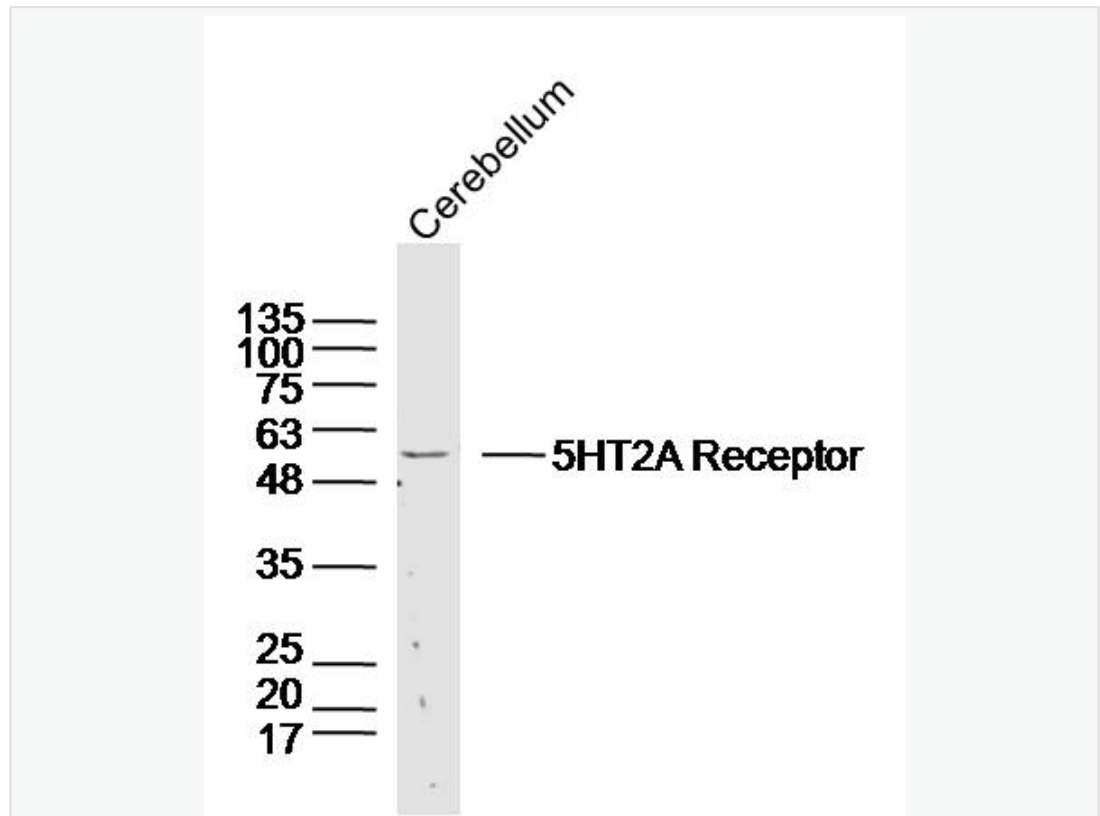
Sample: Small intestine (Mouse) Lysate at 40 ug

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



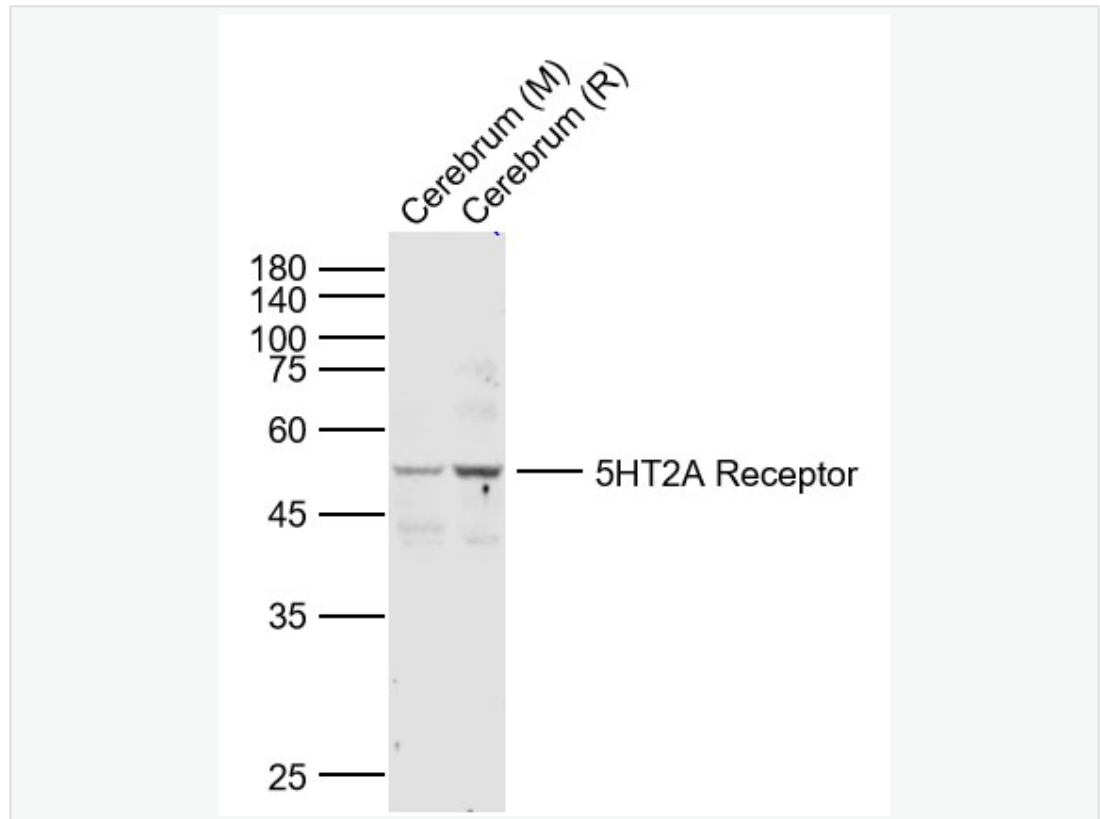
Sample:Cerebellum (Mouse) Lysate at 40 ug

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



Sample:

Lane 1: Cerebrum (Mouse) Lysate at 40 ug

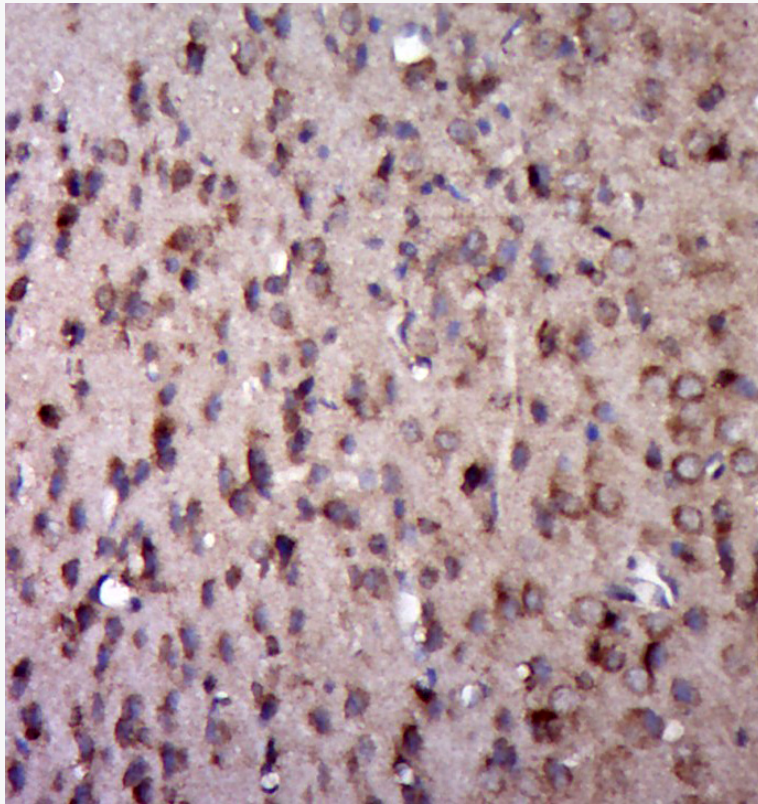
Lane 2: Cerebrum (Rat) Lysate at 40 ug

Primary: Anti-5HT2A Receptor (SL12049R) at 1/1000 dilution

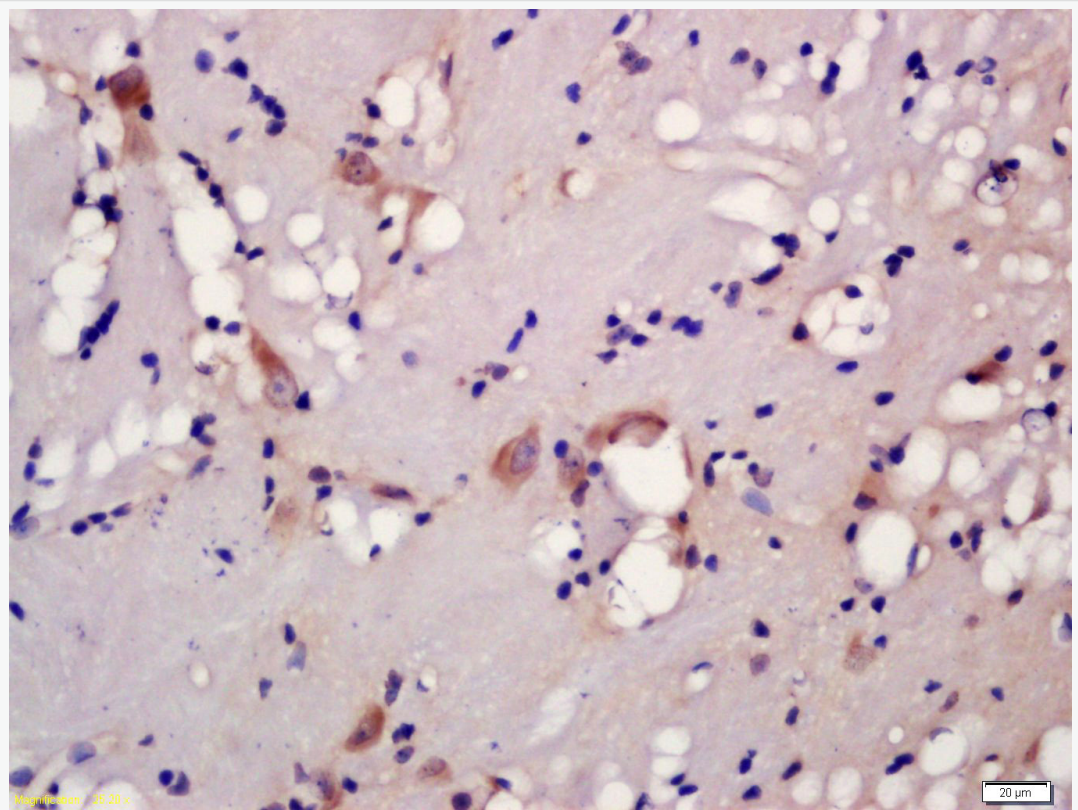
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 53 kD

Observed band size: 50 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 (1M, 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