



Rabbit Anti-5HT2A Receptor antibody

SL20743R

Product Name:	5HT2A Receptor
Chinese Name:	5-羟色胺受体2A抗体
Alias:	5-hydroxytryptamine receptor 2A; 5-hydroxytryptamine receptor; Serotonin receptor 2A; 5-HT-2A; 5-HT-2; HTR2A; Htr2a; 5 HT 2; 5HTR2A; 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.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Pig,Cow,Horse,Sheep,
Applications:	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.
Molecular weight:	52kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human 5HT2A Receptor:21-120/471<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	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.
PubMed:	PubMed
Product Detail:	5HT2A receptor is one of the several different receptors for 5-hydroxytryptamine (serotonin), a biogenic hormone that functions as a neurotransmitter, a hormone, and a

mitogen. 5HT2A receptor belongs to the G-protein coupled receptor 1 family and 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. 5HT2A receptor is an integral membrane protein which localizes to the post-synaptic thickening of axo-dendritic synapses. 5HT2A receptor protein contains a PDZ domain-binding motif which 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.

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. Note=Localizes to the postsynaptic 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:

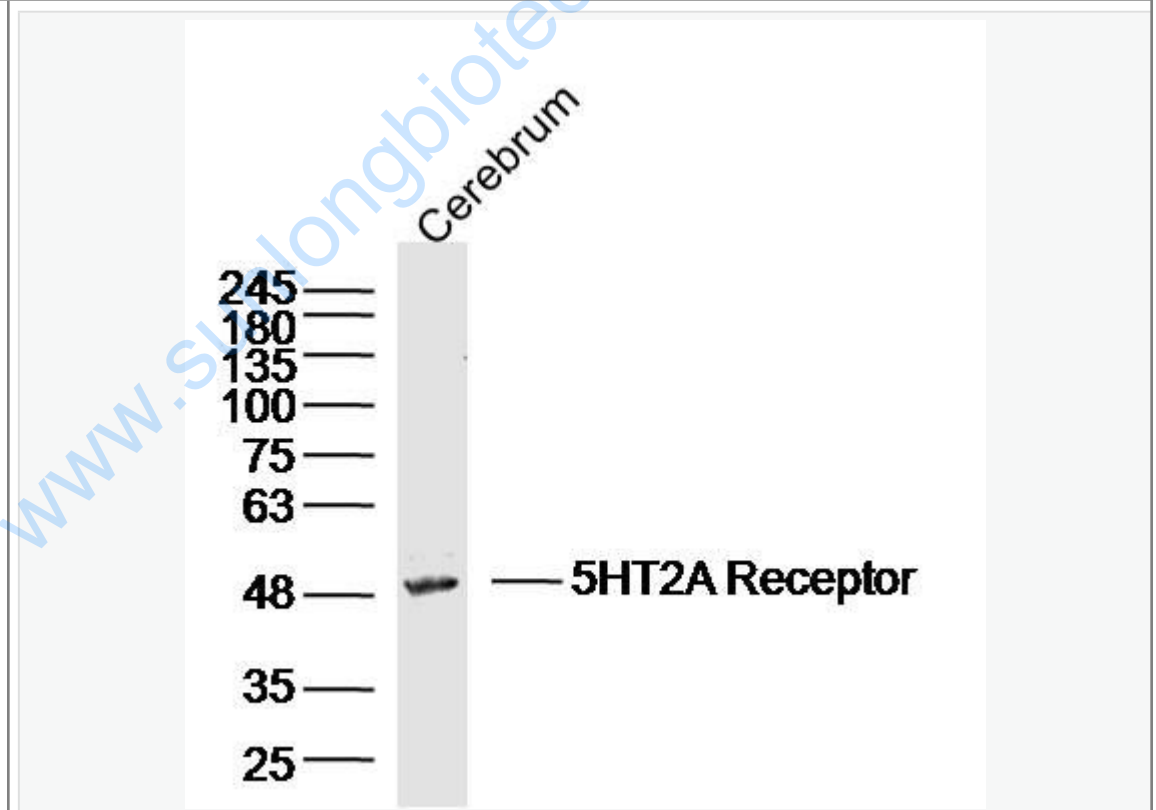
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

5-HT_{2A}受体位于大脑皮层第4层内,参与磷酸肌醇的水解。

5-HT_{2A}受体与睡眠有密切关系。

也有学者认为:5-HT_{2A}受体与精神分裂症及脑神经退行性改变有关。5-HT_{2A}受体可能成为非典型抗精神病药物作用的靶受体。

Picture:



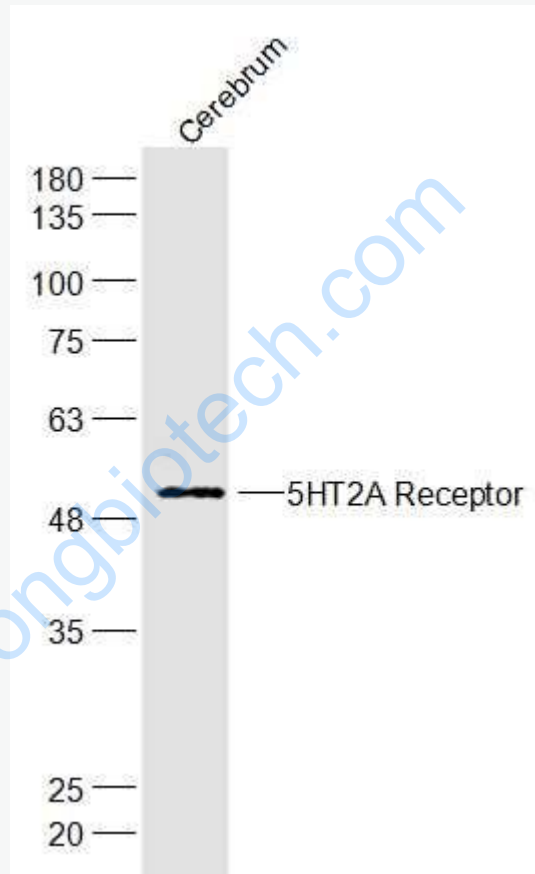
Sample: Cerebrum (Mouse) Lysate at 40 ug

Primary: Anti-5HT_{2A} Receptor (SL20743R) at 1/300 dilution

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

Predicted band size: 52 kD

Observed band size: 52 kD



Sample:

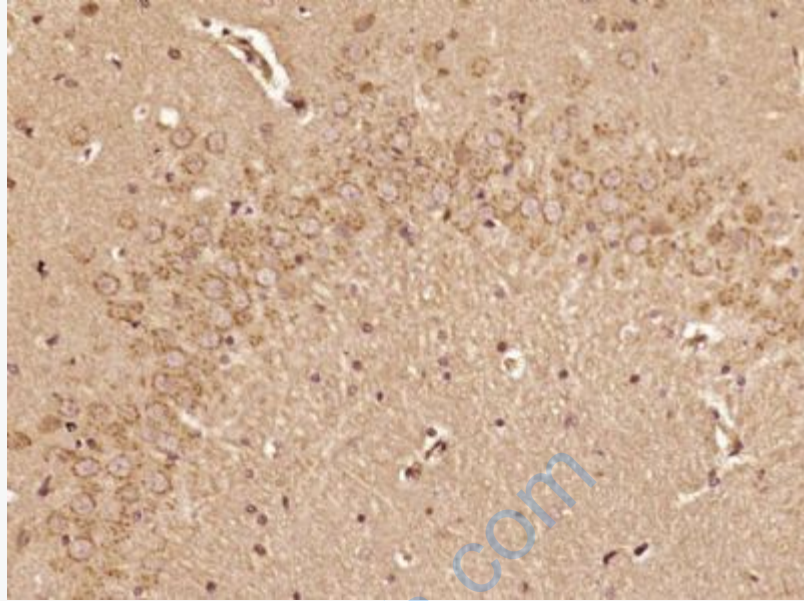
Cerebrum (Mouse) Lysate at 40 ug

Primary: Anti-5HT2A Receptor (SL20743R) at 1/300 dilution

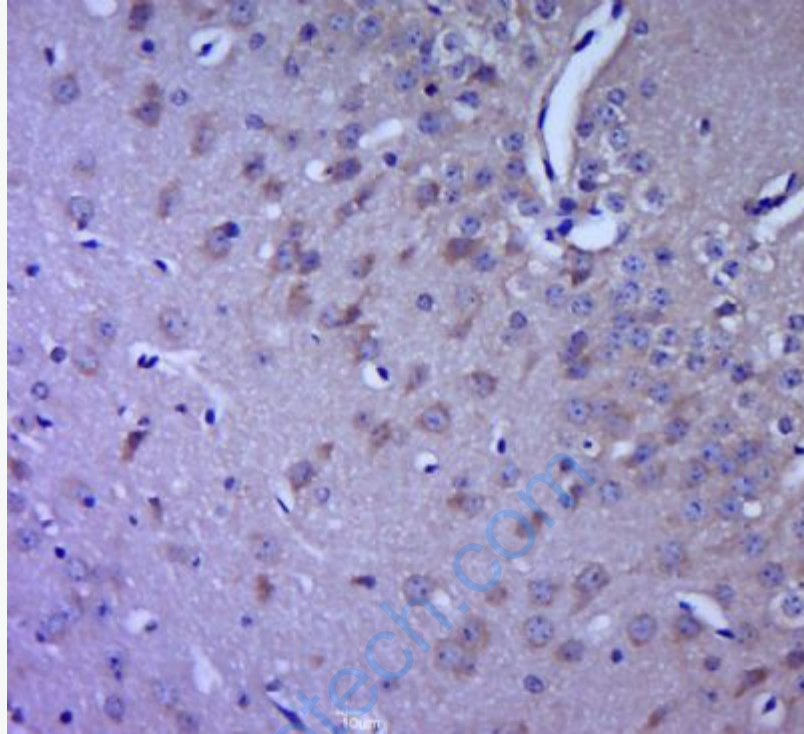
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 52 kD

Observed band size: 52 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 (SL20743R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); 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 (SL20743R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.