



Rabbit Anti-5HT2B Receptor antibody

SL12050R

Product Name:	5HT2B Receptor
Chinese Name:	5-羟色胺受体2B抗体
Alias:	SR-2B; 5 HT 2B; 5 HT 2B receptor; 5 HT(2B); 5 HT2B; 5 hydroxytryptamine (serotonin) receptor 2B; 5 hydroxytryptamine (serotonin) receptor 2B G protein coupled; 5 hydroxytryptamine 2B receptor; 5 hydroxytryptamine receptor 2B; 5-HT-2B; 5-HT2B; 5-hydroxytryptamine receptor 2B; 5HT(2B); 5HT2B_HUMAN; 5HT2F; Htr 2b; Htr2b; NP75 protein; SEROTONIN 5HT2B RECEPTOR; Serotonin receptor 2B; Stomach fundus serotonin receptor.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,
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:	54kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human 5HT2B Receptor/SR-2B:1-100/481<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:	Serotonin (also designated 5-hydroxytryptamine or 5-HT) is a molecule that functions as

a neurotransmitter, a hormone and a mitogen, and it is predominantly expressed in the gut, platelets and central nervous system (CNS). In the CNS, serotonin modulates several processes, including anxiety, sleep, appetite, behavior and drug abuse. In platelets and gut, serotonin plays a major role in cardiovascular function and motility of the gastrointestinal tract, respectively. Serotonin mediates its effects through several of G protein coupled receptors, designated 5-HT receptors or alternatively SR receptors. The SR-2 receptors are comprised of three subtypes, SR-2A, SR-2B and SR-2C, which activate phospholipase C and release intracellular stores of calcium in response to serotonin. SR-2A has a specific role in tracheal smooth muscle contraction, bronchoconstriction and mediating aldosterone production, and it is also thought to play a role in several psychiatric disorders, including depression and schizophrenia. SR-2B is expressed in embryonic and adult cardiovascular tissues, gut and brain and plays an important role in the pathology of cardiac disorders. SR-2C is thought to mediate the effects of atypical antipsychotic drugs.

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. Plays a role in the regulation of impulsive behavior.

Subunit:

Interacts with MPDZ.

Subcellular Location:

Cell membrane; Multi-pass membrane protein.

Tissue Specificity:

Expressed in brain. Higher levels of expression are observed in the cerebellum, occipital cortex and frontal cortex.

Similarity:

Belongs to the G-protein coupled receptor 1 family.

SWISS:

P41595

Gene ID:

3357

Database links:

[Entrez Gene: 3357](#) Human

[Omim: 601122](#) Human

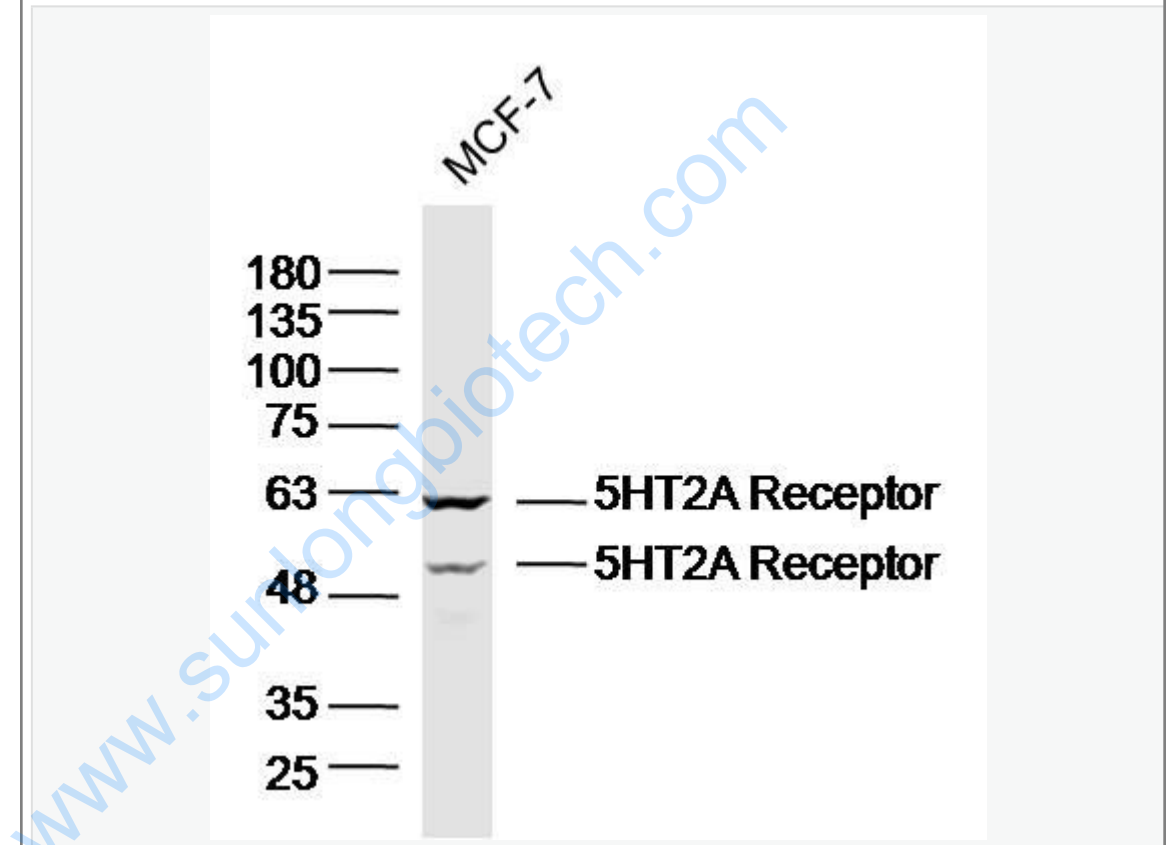
[SwissProt: P41595](#) Human

[Unigene: 421649](#) Human

Important Note:

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

Picture:



Sample:

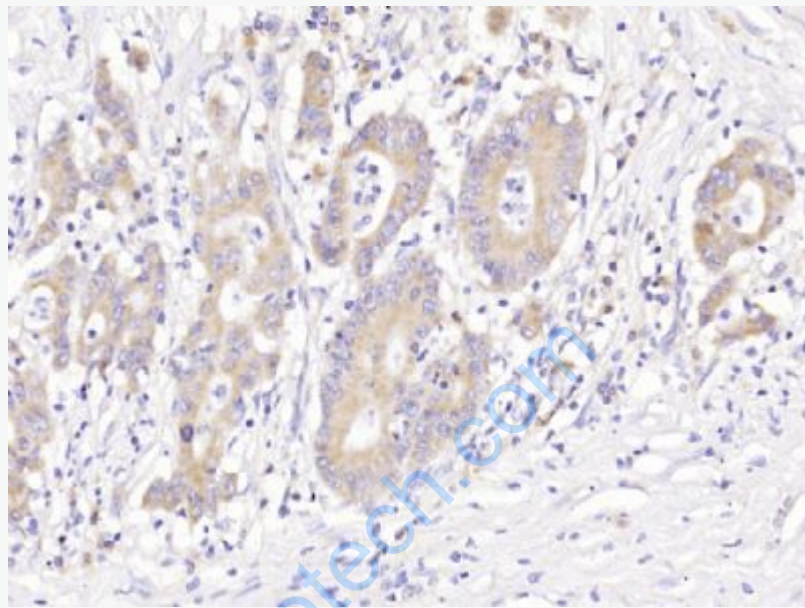
MCF-7 Cell (Human) Lysate at 30 ug

Primary: Anti- 5HT2A Receptor (SL12050R) at 1/300 dilution

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

Predicted band size: 54kD

Observed band size: 54/59kD



Paraformaldehyde-fixed, paraffin embedded (human colon carcinoma); 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 (5HT2B Receptor) Polyclonal Antibody, Unconjugated (SL12050R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.