

## 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.

**Research Area** 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,  
WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=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** 54kDa

**Cellular localization** The cell membrane

**Form** 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

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

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<b>Storage</b>	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
<b>Attention</b>	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
<b>PubMed</b>	<a href="#">PubMed</a> 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.
<b>Product Detail</b>	<p><b>Function:</b> 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.</p> <p><b>Subunit:</b> Interacts with MPDZ.</p> <p><b>Subcellular Location:</b> Cell membrane; Multi-pass membrane protein.</p> <p><b>Tissue Specificity:</b> Expressed in brain. Higher levels of expression are observed in the cerebellum, occipital cortex and frontal cortex.</p> <p><b>Similarity:</b> Belongs to the G-protein coupled receptor 1 family.</p> <p><b>SWISS:</b> P41595</p>

**Gene ID:**  
3357

**Database links:**

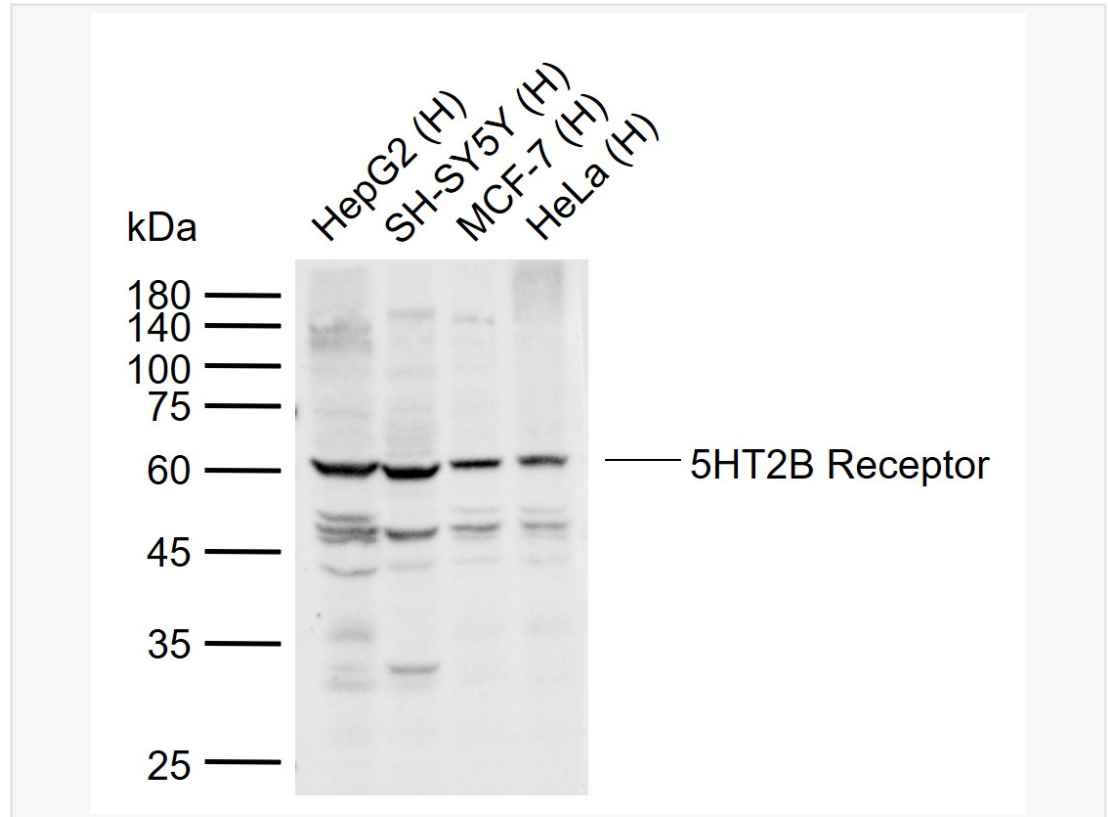
[Entrez Gene: 3357](#) Human

[Omim: 601122](#) Human

[SwissProt: P41595](#) Human

[Unigene: 421649](#) Human

**Product  
Picture**



Sample:

Lane 1: Human HepG2 cell lysates

Lane 2: Human SH-SY5Y cell lysates

Lane 3: Human MCF-7 cell lysates

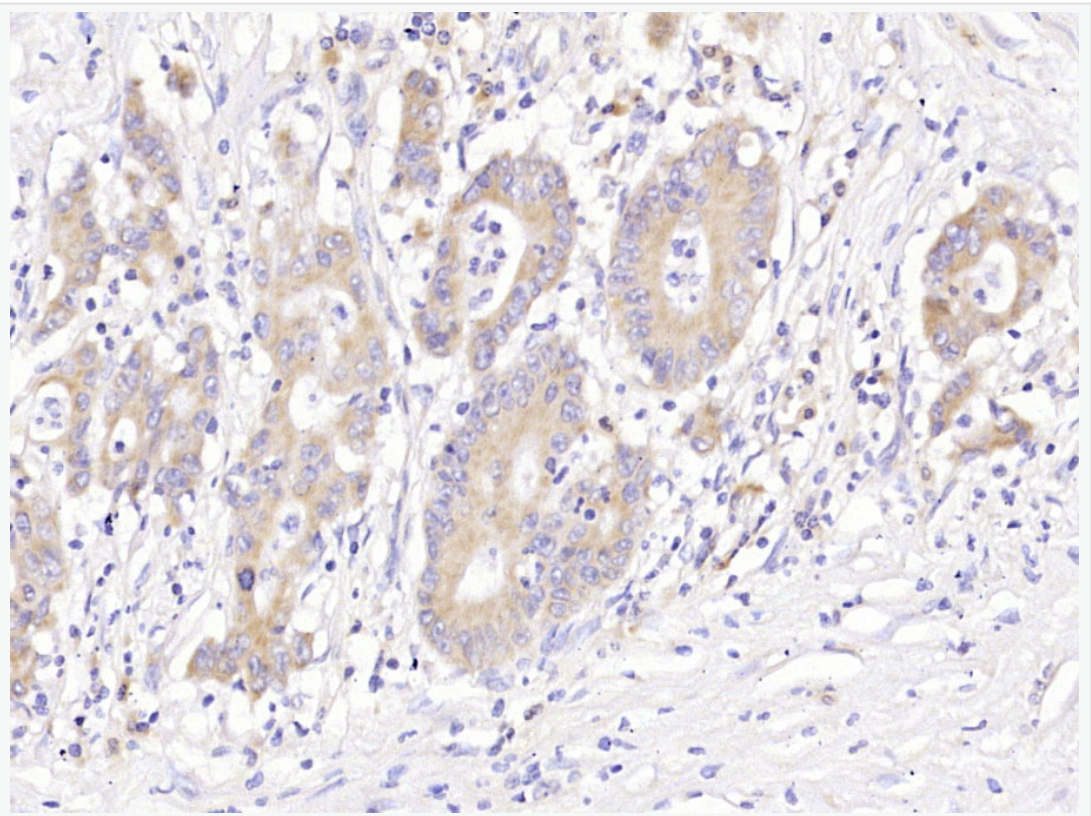
Lane 4: Human HeLa cell lysates

Primary: Anti-5HT2B Receptor (SL12050R) at 1/1000 dilution

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

Predicted band size: 54 kDa

Observed band size: 60 kDa



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



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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.