

## Rabbit Anti-5HT4 Receptor antibody

SL12054R

|                                     |  |
|-------------------------------------|--|
| <b>Product Name</b>                 | 5HT4 Receptor  |
| <b>Chinese Name</b>                 | 5-羟色胺受体 4 抗体   |
| <b>Alias</b>                        | 5 HT 4; 5 HT4; 5 HT4R; 5 hydroxytryptamine 4 receptor; 5 hydroxytryptamine receptor 4; 5 hydroxytryptamine serotonin receptor 4; 5 hydroxytryptamine4 receptor; 5-HT-4; 5-ht4; 5-HT4R; 5H4; 5HT 4; 5HT4; 5ht4 receptor; 5HT4R; Cardiac 5 HT4 receptor; HTR 4; HTR4; serotonin 4 receptor; Serotonin 5 HT4 receptor; serotonin 5-ht-4 receptor; serotonin 5-ht-4a. Serotonin receptor 4; 5HT4R_HUMAN. |
| <b>Research Area</b>                | Neurobiology The cell membrane 受体 G protein-coupled receptor The new supersedes the old G protein signal   |
| <b>Immunogen Species</b>            | Rabbit   |
| <b>Clonality</b>                    | Polyclonal   |
| <b>React Species</b>                | Human,Mouse,Rat(predicted:Chicken,Dog,Pig,Cow,Horse,Sheep,GuineaPig)<br>WB=1:500-2000  |
| <b>Applications</b>                 | not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user.  |
| <b>Theoretical molecular weight</b> | 44kDa  |
| <b>Cellular localization</b>        | cytoplasmic The cell membrane  |
| <b>Form</b>                         | Liquid   |
| <b>Concentration</b>                | 1mg/ml   |
| <b>immunogen</b>                    | KLH conjugated synthetic peptide derived from human 5HT4 Receptor: 161-270/388 <Extracellular>   |
| <b>Lsotype</b>                      | IgG  |
| <b>Purification</b>                 | affinity purified by Protein A   |
| <b>Buffer Solution</b>              | 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.   |
| <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.

## PubMed

### [PubMed](#)

This gene is a member of the family of serotonin receptors, which are G protein coupled receptors that stimulate cAMP production in response to serotonin (5-hydroxytryptamine). The gene product is a glycosylated transmembrane protein that functions in both the peripheral and central nervous system to modulate the release of various neurotransmitters. Multiple transcript variants encoding proteins with distinct C-terminal sequences have been described. [provided by RefSeq, May 2010]

### **Function:**

The 5HT4 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. The activity of this receptor is mediated by G proteins that stimulates adenylate cyclase. 5HT4a receptors may play a role in opioid-induced respiratory depression.

### **Subunit:**

Isoform 5-HT4(A) interacts with MAGI2, MPP3, SLC9A3R1 and SNX27 isoforms 1 and 2. Isoform 5-HT4(E) interacts with INADL, NOS1 and SEC23A. Isoform 5-HT4(A) forms a complex including SLC9A3R1 and EZR (By similarity). Interacts (via C-terminus 330-346 AA) with GRK5; this interaction is promoted by 5-HT (serotonin).

## Product Detail

### **Subcellular Location:**

Cell membrane; Multi-pass membrane protein. Endosome. Note: Interaction with SNX27 mediates recruitment to early endosomes, while interaction with SLC9A3R1 and EZR might target the protein to specialized subcellular regions, such as microvilli.

### **Tissue Specificity:**

Isoform 5-HT4(A) is expressed in ileum, brain, and atrium, but not in the ventricle.

### **Similarity:**

Belongs to the G-protein coupled receptor 1 family.

### **SWISS:**

Q13639

### **Gene ID:**

3360

**Database links:**

[Entrez Gene: 3360](#) Human

[Entrez Gene: 15562](#) Mouse

[Entrez Gene: 25324](#) Rat

[GenBank: NP\\_000861.1](#) Human

[Omim: 602164](#) Human

[SwissProt: O70528](#) Guinea pig

[SwissProt: Q13639](#) Human

[SwissProt: P97288](#) Mouse

[SwissProt: Q29006](#) Pig

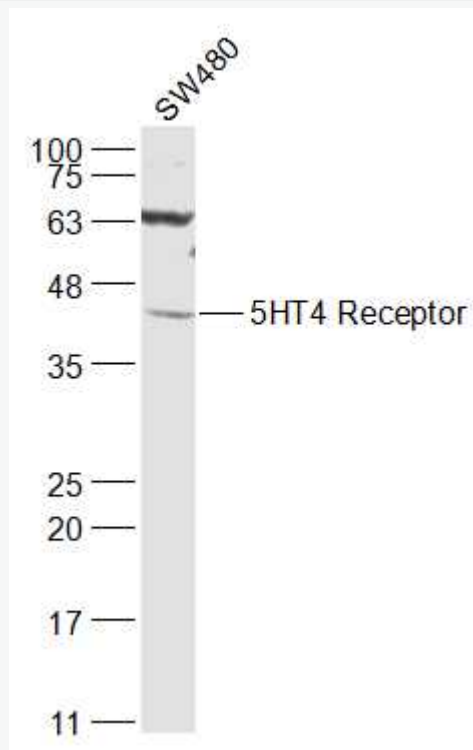
[SwissProt: Q62758](#) Rat

[Unigene: 483773](#) Human

[Unigene: 20440](#) Mouse

[Unigene: 10094](#) Rat

**Product Picture**



Sample:

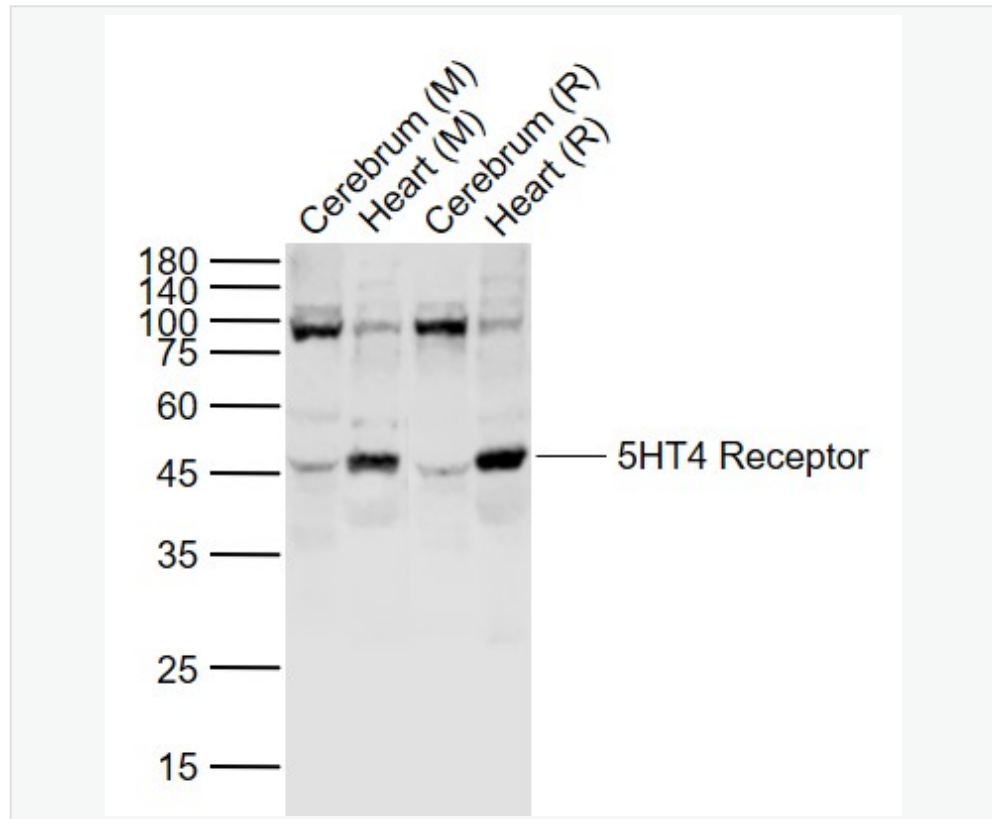
SW480(Human) Cell Lysate at 30 ug

Primary: Anti-5HT4 Receptor (SL12054R) at 1/1000 dilution

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

Predicted band size: 44 kD

Observed band size: 44 kD



Sample:

Lane 1: Mouse Cerebrum tissue lysates

Lane 2: Mouse Heart tissue lysates

Lane 3: Rat Cerebrum tissue lysates

Lane 4: Rat Heart tissue lysates

Primary: Anti-5HT4 Receptor (SL12054R) at 1/1000 dilution

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

Predicted band size: 44 kD

Observed band size: 45 kD