

## Product datasheet for **TA328698**

### HTR1B Rabbit Polyclonal Antibody

#### Product data:

|                        |                                                                                                                                                                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type:          | Primary Antibodies                                                                                                                                                                                                                                    |
| Applications:          | WB                                                                                                                                                                                                                                                    |
| Recommended Dilution:  | WB: 1:200-1:2000                                                                                                                                                                                                                                      |
| Reactivity:            | Rat                                                                                                                                                                                                                                                   |
| Host:                  | Rabbit                                                                                                                                                                                                                                                |
| Clonality:             | Polyclonal                                                                                                                                                                                                                                            |
| Immunogen:             | Peptide CSAKDYIYQDSISLPWK, corresponding to amino acid residues 33-49 of human 5-Hydroxytryptamine Receptor 1B . Extracellular, N-terminus.                                                                                                           |
| Formulation:           | Lyophilized. Concentration before lyophilization ~0.8mg/ml (lot dependent, please refer to CoA along with shipment for actual concentration). Buffer before lyophilization: Phosphate buffered saline (PBS), pH 7.4, 1% BSA, 0.05% NaN <sub>3</sub> . |
| Reconstitution Method: | Add 50 ul double distilled water (DDW) to the lyophilized powder.                                                                                                                                                                                     |
| Purification:          | Affinity purified on immobilized antigen.                                                                                                                                                                                                             |
| Conjugation:           | Unconjugated                                                                                                                                                                                                                                          |
| Storage:               | Store at -20°C as received.                                                                                                                                                                                                                           |
| Stability:             | Stable for 12 months from date of receipt.                                                                                                                                                                                                            |
| Gene Name:             | 5-hydroxytryptamine receptor 1B                                                                                                                                                                                                                       |
| Database Link:         | <a href="#">NP_000854</a><br><a href="#">Entrez Gene 25075 Rat</a><br><a href="#">P28222</a>                                                                                                                                                          |



[View online »](#)

**Background:**

Serotonin (5-hydroxytryptamine, 5-HT) plays unequivocally a most important role in the normal physiology amongst higher eukaryotes, as do most neurotransmitters. The physiological roles of serotonin and its receptors range from appetite, regulation of the circadian rhythm, sexual behavior, memory and nociception. Serotonin is also involved in migraine and some psychiatric diseases such as depression anxiety and aggression. Serotonin and its receptors also have an influence on the cardiovascular, pulmonary, gastrointestinal (GI) and genitourinary systems. To date, some fifteen serotonin receptors have been cloned and grouped into seven families (5-HT1-5-HT7) based on their signaling mechanisms. The 5-HT1 receptor class comprises 5 different receptors with ranging homology. Apart from 5-HT3, all serotonin receptors belong to the G-Protein Coupled Receptor superfamily and therefore span the membrane seven times. The 5-Hydroxytryptamine Receptor 1B (5-HT1B) is involved in several physiological behaviors and psychiatric disease, including locomotor activity, drug abuse reinforcement, migraine, anxiety states and aggressive behaviors. Pharmacological studies suggest that 5-HT1B is expressed by both serotonergic and non-serotonergic neurons. In the nervous system, this receptor is located in the axon terminal of the plasma membrane of unmyelinated axons. It is predominantly localized on pre-synaptic membranes. Signal transduction studies of the receptor indicate that this receptor is coupled negatively to adenylyl cyclase as its activation induces a decrease in adenylyl cyclase activity.

**Synonyms:**

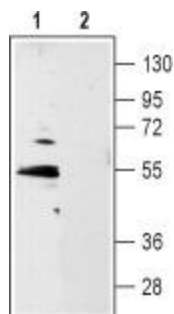
5-HT1B; 5-HT1DB; HTR1D2; HTR1DB; S12

**Protein Families:**

Druggable Genome, GPCR, Transmembrane

**Protein Pathways:**

Neuroactive ligand-receptor interaction

**Product images:**

Western blot analysis of rat hippocampus lysate:  
1. Anti-5-Hydroxytryptamine Receptor 1B (extracellular) antibody, (1:400). 2. Anti-5-Hydroxytryptamine Receptor 1B (extracellular) antibody, preincubated with the control peptide antigen.