10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# Anti-HTR1B / 5-HT1B Receptor Antibody (Cytoplasmic Domain)

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS17527

## Product Information

| | |
|---|---|
| **Application** | IHC-P |
| **Primary Accession** | P28222 |
| **Predicted** | Human, Mouse, Rat, Rabbit, Hamster, Pig, Bovine, Guinea Pig, Dog |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 43568 |
| **Concentration (mg/ml)** | 1 mg/ml |

## Additional Information

| | |
|---|---|
| **Gene ID** | 3351 |
| **Alias Symbol** | HTR1B |
| **Other Names** | HTR1B, 5-HT-1B, 5-HT-1D-beta, 5-HT1B, 5-HT1b receptor, 5-HT1DB, 5HT1B Receptor, HTR1DB, Serotonin 5-HT-1b receptor, Serotonin receptor 1B, Serotonin 1b receptor, HTR1D2, Serotonin 1D beta receptor |
| **Target/Specificity** | Human 5HT1B Receptor. BLAST analysis of the peptide immunogen showed no homology with other human proteins. |
| **Reconstitution & Storage** | Immunoaffinity purified |
| **Precautions** | Anti-HTR1B / 5-HT1B Receptor Antibody (Cytoplasmic Domain) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

| | |
|---|---|
| **Name** | HTR1B ( HGNC:5287) |
| **Synonyms** | HTR1DB |
| **Function** | G protein-coupled receptor for 5-hydroxytryptamine (serotonin) (PubMed:10452531, PubMed:1315531, PubMed:1328844, PubMed:1348246, PubMed:1351684, PubMed:1559993, PubMed:1565658, PubMed:1610347, PubMed:23519210, PubMed:23519215, PubMed:29925951, PubMed:8218242). Also functions as a receptor for ergot alkaloid derivatives, various anxiolytic and antidepressant drugs and other psychoactive substances, such as lysergic acid diethylamide (LSD) (PubMed:23519210, PubMed:23519215, PubMed:29925951). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding |

| | |
|---|---|
| | proteins (G proteins) and modulates the activity of downstream effectors, such as adenylate cyclase (PubMed:10452531, PubMed:1315531, PubMed:1328844, PubMed:1348246, PubMed:1351684, PubMed:1559993, PubMed:1565658, PubMed:1610347, PubMed:23519210, PubMed:23519215, PubMed:29925951, PubMed:8218242). HTR1B is coupled to G(i)/G(o) G alpha proteins and mediates inhibitory neurotransmission by inhibiting adenylate cyclase activity (PubMed:29925951, PubMed:35610220). Arrestin family members inhibit signaling via G proteins and mediate activation of alternative signaling pathways (PubMed:29925951). Regulates the release of 5-hydroxytryptamine, dopamine and acetylcholine in the brain, and thereby affects neural activity, nociceptive processing, pain perception, mood and behavior (PubMed:18476671, PubMed:20945968). Besides, plays a role in vasoconstriction of cerebral arteries (PubMed:15853772). |
| **Cellular Location** | Cell membrane; Multi-pass membrane protein |
| **Tissue Location** | Detected in cerebral artery smooth muscle cells (at protein level). Detected in brain cortex, striatum, amygdala, medulla, hippocampus, caudate nucleus and putamen. |

## Citations

- Methamphetamine leads to the alterations of microRNA profiles in the nucleus accumbens of rats

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.