

# HTR1D / 5-HT1D Receptor Antibody (aa1-18)

Rabbit Polyclonal Antibody Catalog # ALS12084

## Specification

## HTR1D / 5-HT1D Receptor Antibody (aa1-18) - Product Information

Application Primary Accession Reactivity Host Clonality Calculated MW IHC <u>P28221</u> Human, Mouse, Rat Rabbit Polyclonal 42kDa KDa

#### HTR1D / 5-HT1D Receptor Antibody (aa1-18) - Additional Information

Gene ID 3352

**Other Names** 5-hydroxytryptamine receptor 1D, 5-HT-1D, 5-HT1D, Serotonin 1D alpha receptor, 5-HT-1D-alpha, Serotonin receptor 1D, HTR1D, HTR1DA, HTRL

**Target/Specificity** A mixture of synthetic peptides corresponding to amino acids 1-18 and 251-267 of rat 5-HT1DR (Genbank accession no. NP\_036984).

**Reconstitution & Storage** Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

**Precautions** HTR1D / 5-HT1D Receptor Antibody (aa1-18) is for research use only and not for use in diagnostic or therapeutic procedures.

## HTR1D / 5-HT1D Receptor Antibody (aa1-18) - Protein Information

Name HTR1D

Synonyms HTR1DA, HTRL

Function

G-protein coupled receptor for 5-hydroxytryptamine (serotonin). Also functions as a receptor for ergot alkaloid derivatives, various anxiolytic and antidepressant drugs and other psychoactive substances. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors, such as adenylate cyclase. Signaling inhibits adenylate cyclase activity. Regulates the release of 5-hydroxytryptamine in the brain, and thereby affects neural activity. May also play a role in regulating the release of other neurotransmitters. May play a role in vasoconstriction.

**Cellular Location** 



Cell membrane; Multi-pass membrane protein

**Tissue Location** 

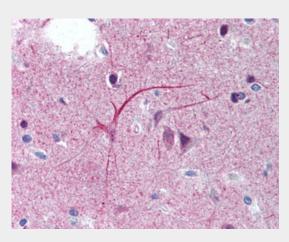
Detected in brain neocortex and caudate nucleus (at protein level).

#### HTR1D / 5-HT1D Receptor Antibody (aa1-18) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

## HTR1D / 5-HT1D Receptor Antibody (aa1-18) - Images



Anti-5HT1D Receptor antibody IHC of human brain, cortex. HTR1D / 5-HT1D Receptor Antibody (aa1-18) - Background

G-protein coupled receptor for 5-hydroxytryptamine (serotonin). Also functions as a receptor for ergot alkaloid derivatives, various anxiolytic and antidepressant drugs and other psychoactive substances. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors, such as adenylate cyclase. Signaling inhibits adenylate cyclase activity. Regulates the release of 5-hydroxytryptamine in the brain, and thereby affects neural activity. May also play a role in regulating the release of other neurotransmitters. May play a role in vasoconstriction.

#### HTR1D / 5-HT1D Receptor Antibody (aa1-18) - References

Hamblin M.W., et al. Mol. Pharmacol. 40:143-148(1991). Weinshank R.L., et al. Proc. Natl. Acad. Sci. U.S.A. 89:3630-3634(1992). Puhl H.L. III, et al. Submitted (APR-2002) to the EMBL/GenBank/DDBJ databases. Kalnine N., et al. Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases. Gregory S.G., et al. Nature 441:315-321(2006).