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

Goat Anti-HTR7 / 5-HT7 Antibody
Peptide-affinity purified goat antibody
Catalog # AF2182a

Specification

Goat Anti-HTR7 / 5-HT7 Antibody - Product Information

Application	**WB, E**
Primary Accession	P34969
Other Accession	NP_000863, 3363
Reactivity	**Human**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**53555**

Goat Anti-HTR7 / 5-HT7 Antibody - Additional Information

Gene ID 3363

Other Names
5-hydroxytryptamine receptor 7, 5-HT-7, 5-HT7, 5-HT-X, Serotonin receptor 7, HTR7

Dilution
WB~~1:1000
E~~N/A

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-HTR7 / 5-HT7 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-HTR7 / 5-HT7 Antibody - Protein Information

Name HTR7 {ECO:0000303|Ref.3, ECO:0000312|HGNC:HGNC:5302}

Function
G-protein coupled receptor for 5-hydroxytryptamine (serotonin), a biogenic hormone that functions as a neurotransmitter, a hormone and a mitogen (PubMed:35714614, PubMed:<a

href="http://www.uniprot.org/citations/8226867" target="_blank">8226867). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of downstream effectors (PubMed:35714614, PubMed:8226867). HTR7 is coupled to G(s) G alpha proteins and mediates activation of adenylate cyclase activity (PubMed:35714614).

Cellular Location
Cell membrane; Multi-pass membrane protein

Tissue Location
[Isoform A]: Predominant isoform in spleen, caudate and hippocampus. [Isoform D]: Minor isoform in terms of expression.

Goat Anti-HTR7 / 5-HT7 Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat Anti-HTR7 / 5-HT7 Antibody - Images

AF2182a (1 µg/ml) staining of KELLY lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-HTR7 / 5-HT7 Antibody - Background

The neurotransmitter, serotonin, is thought to play a role in various cognitive and behavioral functions. The serotonin receptor encoded by this gene belongs to the superfamily of G protein-coupled receptors and the gene is a candidate locus for involvement in autistic disorder and other neuropsychiatric disorders. Three splice variants have been identified which encode proteins that differ in the length of their carboxy terminal ends.

Goat Anti-HTR7 / 5-HT7 Antibody - References

Physiogenomic analysis of statin-treated patients: domain-specific counter effects within the ACACB gene on low-density lipoprotein cholesterol? Rua□o G, et al. Pharmacogenomics, 2010 Jul. PMID 20602615.
Association study of 182 candidate genes in anorexia nervosa. Pinheiro AP, et al. Am J Med Genet B Neuropsychiatr Genet, 2010 Jul. PMID 20468064.
Association study of the serotoninergic system in migraine in the Spanish population. Corominas R, et al. Am J Med Genet B Neuropsychiatr Genet, 2010 Jan 5. PMID 19455600.
Expression of 5-HT1A and 5-HT7 receptors in Caco-2 cells and their role in the regulation of serotonin transporter activity. Iceta R, et al. J Physiol Pharmacol, 2009 Mar. PMID 19439818.
Association analysis of serotonin receptor 7 gene (HTR7) and risperidone response in Chinese schizophrenia patients. Wei Z, et al. Prog Neuropsychopharmacol Biol Psychiatry, 2009 Apr 30. PMID 19233240.