

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

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

Application	WB, E
Primary Accession	<a href="#">P34969</a>
Other Accession	<a href="#">NP_000863</a> , <a href="#">3363</a>
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:&lt;a href="http://www.uniprot.org/citations/35714614" target="\_blank"&gt;35714614&lt;/a&gt;, PubMed:&lt;a href="http://www.uniprot.org/citations/35714614" target="\_blank"&gt;35714614&lt;/a&gt;)

[8226867](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/35714614)), PubMed:[8226867](http://www.uniprot.org/citations/8226867)). HTR7 is coupled to G(s) G alpha proteins and mediates activation of adenylate cyclase activity (PubMed:[35714614](http://www.uniprot.org/citations/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 Cytometry](#)
- [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? Ruaño 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 serotonergic 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.