

**5HT7 Receptor Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP54714****Specification****5HT7 Receptor Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	<a href="#">P34969</a>
Reactivity	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	54 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human 5HT7 Receptor/SR-7
Epitope Specificity	51-150/479
Isotype	IgG
<b>Purity</b>	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell membrane; Multi-pass membrane protein.
SIMILARITY	Belongs to the G-protein coupled receptor 1 family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**Background Descriptions**

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. [provided by RefSeq, Jul 2008]

**5HT7 Receptor Polyclonal Antibody - Additional Information****Gene ID** 3363**Other Names**

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

**Target/Specificity**

Isoform A is the predominant isoform in spleen, caudate and hippocampus. Isoform B is expressed at lower levels. Isoform D is a minor isoform in term of expression.

**Dilution**WB~1:1000

=<span class="dilution\_IHC-P">IHC-P~~N/A</span><br \><span class="dilution\_IHC-F">IHC-F~~N/A</span><br \><span class="dilution\_IF">IF~~1:50~200</span><br \><span class="dilution\_ICC">ICC~~N/A</span><br \><span class="dilution\_E">E~~N/A</span>

**Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

**Storage**

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

**5HT7 Receptor Polyclonal 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:<a href="http://www.uniprot.org/citations/35714614" target="\_blank">35714614</a>, PubMed:<a href="http://www.uniprot.org/citations/8226867" target="\_blank">8226867</a>). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of downstream effectors (PubMed:<a href="http://www.uniprot.org/citations/35714614" target="\_blank">35714614</a>, PubMed:<a href="http://www.uniprot.org/citations/8226867" target="\_blank">8226867</a>). HTR7 is coupled to G(s) G alpha proteins and mediates activation of adenylate cyclase activity (PubMed:<a href="http://www.uniprot.org/citations/35714614" target="\_blank">35714614</a>).

**Cellular Location**

Cell membrane; Multi-pass membrane protein

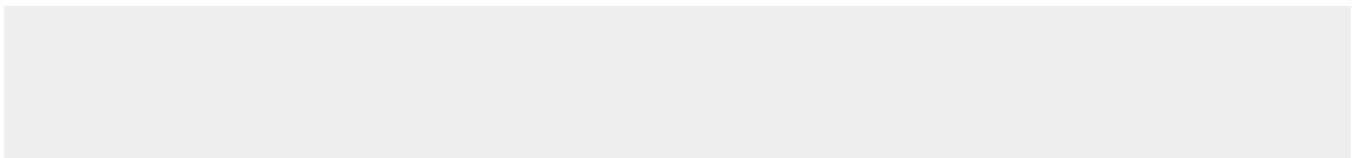
**Tissue Location**

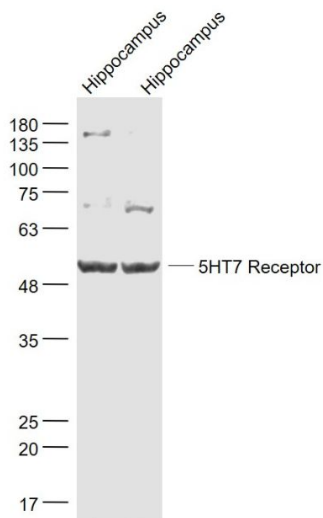
[Isoform A]: Predominant isoform in spleen, caudate and hippocampus. [Isoform D]: Minor isoform in terms of expression.

**5HT7 Receptor Polyclonal 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](#)

**5HT7 Receptor Polyclonal Antibody - Images**



**Sample:**

Hippocampus (Mouse) Lysate at 40 ug

Hippocampus(Rat) Lysate at 40 ug

Primary: Anti- 5HT7 Receptor (bs-12056R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 54 kD

Observed band size: 54 kD