

# 5HT7 Receptor Rabbit pAb

5HT7 Receptor Rabbit pAb Catalog # AP54714

#### **Product Information**

**Application** WB, IHC-P, IHC-F, IF

Primary Accession <u>P34969</u>

**Reactivity** Rat, Human, Mouse

Host Rabbit
Clonality Polyclonal
Calculated MW 53555
Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived from human 5HT7 Receptor/SR-7

**Epitope Specificity** 51-150/479

**Isotype** IgG

**Purity** 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]

### **Additional Information**

**Gene ID** 3363

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

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

**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=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500

**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.

#### **Protein Information**

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

**Function** G-protein coupled receptor for 5-hydroxytryptamine (serotonin), a biogenic

> hormone that functions as a neurotransmitter, a hormone and a mitogen (PubMed:<u>35714614</u>, PubMed:<u>8226867</u>). 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

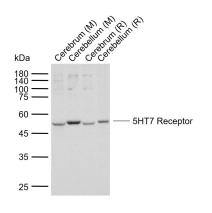
**Tissue Location** [Isoform A]: Predominant isoform in spleen, caudate and hippocampus.

[Isoform D]: Minor isoform in terms of expression.

## **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. [provided by RefSeq, Jul 2008]

## **Images**



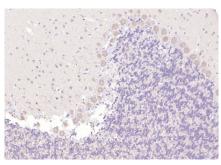
#### Sample:

Lane 1: Mouse Cerebrum tissue lysates Lane 2: Mouse Cerebellum tissue lysates Lane 3: Rat Cerebrum tissue lysates

Lane 4: Rat Cerebellum tissue lysates

Primary: Anti-5HT7 Receptor (AP54714) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 54 kDa Observed band size: 50 kDa



Paraformaldehyde-fixed, paraffin embedded (rat cerebellum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (5HT7 Receptor) Polyclonal Antibody, Unconjugated (AP54714) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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