

# **5HT7 Receptor Polyclonal Antibody**

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP54714

#### **Product Information**

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

Primary Accession
Reactivity
Rat
Host
Clonality
Polyclonal
Calculated MW
53555
Physical State
P34969
Rat
Polyclonal
Foliated MW
53555
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

**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,ICC=1:100-500,IF=1:100-50

0,ELISA=1:5000-10000

**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**

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:<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

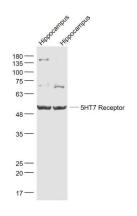
(PubMed:35714614).

**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.

## **Images**



Sample:

Hippocampus (Mouse) Lysate at 40 ug Hippocampus(Rat) Lysate at 40 ug

Primary: Anti- 5HT7 Receptor (AP54714) at 1/1000

dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at

1/20000 dilution

Predicted band size: 54 kD Observed band size: 54 kD

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