

HTR4 antibody - middle region

Rabbit Polyclonal Antibody Catalog # AI16201

Product Information

Application WB Primary Accession Q13639

Other Accession NM 000870, NP 000861

ReactivityHuman, Rat, Rabbit, Pig, Dog, Horse, Bovine **Predicted**Human, Rat, Rabbit, Pig, Dog, Horse, Bovine

Host Rabbit
Clonality Polyclonal
Calculated MW 43761

Additional Information

Gene ID 3360

Alias Symbol 5-HT4, 5-HT4R

Other Names 5-hydroxytryptamine receptor 4, 5-HT-4, 5-HT4, Serotonin receptor 4, HTR4

Format Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium

azide and 2% sucrose.

Reconstitution & Storage Add 50 ul of distilled water. Final anti-HTR4 antibody concentration is 1 mg/ml

in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C.

Avoid repeat freeze-thaw cycles.

Precautions HTR4 antibody - middle region is for research use only and not for use in

diagnostic or therapeutic procedures.

Protein Information

Name HTR4 (HGNC:5299)

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

hormone that functions as a neurotransmitter, a hormone and a mitogen

(PubMed: 10821780, PubMed: 16102731, PubMed: 35714614,

PubMed:<u>9603189</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:<u>16102731</u>, PubMed:<u>35714614</u>). HTR4 is coupled to G(s) G alpha proteins and mediates activation of adenylate

cyclase activity (PubMed: <u>16102731</u>, PubMed: <u>35714614</u>).

Cellular Location Cell membrane; Multi-pass membrane protein. Endosome membrane

{ECO:0000250|UniProtKB:P97288}; Multi-pass membrane protein.

Note=Interaction with SNX27 mediates recruitment to early endosomes, while interaction with NHERF1 and EZR might target the protein to specialized subcellular regions, such as microvilli. {ECO:0000250|UniProtKB:P97288}

Tissue Location

[Isoform 5-HT4(A)]: Expressed in ileum, brain, and atrium, but not in the ventricle. [Isoform 5-HT4(I)]: Expressed in all cardiovascular tissues analyzed.

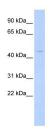
Background

This is one of the several different receptors for 5- hydroxytryptamine (serotonin), a biogenic hormone that functions as a neurotransmitter, a hormone, and a mitogen. The activity of this receptor is mediated by G proteins that stimulate adenylate cyclase.

References

Blondel O., et al.J. Neurochem. 70:2252-2261(1998). Van den Wyngaert I., et al. Submitted (JUN-1997) to the EMBL/GenBank/DDBJ databases. Claeysen S., et al. NeuroReport 8:3189-3195(1997). Syversveen T., et al. Submitted (DEC-1998) to the EMBL/GenBank/DDBJ databases. Claeysen S., et al. Mol. Pharmacol. 55:910-920(1999).

Images



WB Suggested Anti-HTR4 Antibody Titration: 0.2-1 μg/ml

ELISA Titer: 1:2500

Positive Control: HepG2 cell lysate

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