

# HTR4 antibody - middle region

Rabbit Polyclonal Antibody

Catalog # AI16201

## Product Information

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<b>Application</b>	WB
<b>Primary Accession</b>	<a href="#">Q13639</a>
<b>Other Accession</b>	<a href="#">NM_000870</a> , <a href="#">NP_000861</a>
<b>Reactivity</b>	Human, Rat, Rabbit, Pig, Dog, Horse, Bovine
<b>Predicted</b>	Human, Rat, Rabbit, Pig, Dog, Horse, Bovine
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	43761

## Additional Information

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<b>Gene ID</b>	3360
<b>Alias Symbol</b>	5-HT4, 5-HT4R
<b>Other Names</b>	5-hydroxytryptamine receptor 4, 5-HT-4, 5-HT4, Serotonin receptor 4, HTR4
<b>Format</b>	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
<b>Reconstitution &amp; Storage</b>	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.
<b>Precautions</b>	HTR4 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	HTR4 ( <a href="#">HGNC:5299</a> )
<b>Function</b>	G-protein coupled receptor for 5-hydroxytryptamine (serotonin), a biogenic hormone that functions as a neurotransmitter, a hormone and a mitogen (PubMed: <a href="#">10821780</a> , PubMed: <a href="#">16102731</a> , PubMed: <a href="#">35714614</a> , PubMed: <a href="#">9603189</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="#">16102731</a> , PubMed: <a href="#">35714614</a> ). HTR4 is coupled to G(s) G alpha proteins and mediates activation of adenylate cyclase activity (PubMed: <a href="#">16102731</a> , PubMed: <a href="#">35714614</a> ).
<b>Cellular Location</b>	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

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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.

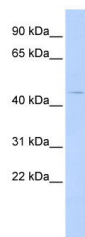
## References

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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.  
Claeyssen S.,et al.NeuroReport 8:3189-3195(1997).  
Syversveen T.,et al.Submitted (DEC-1998) to the EMBL/GenBank/DDBJ databases.  
Claeyssen S.,et al.Mol. Pharmacol. 55:910-920(1999).

## Images

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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'.