

5-HT4 Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51275

Product Information

Application	WB
Primary Accession	Q13639
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43761

Additional Information

Gene ID	3360
Other Names	5-hydroxytryptamine receptor 4, 5-HT-4, 5-HT4, Serotonin receptor 4, HTR4
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human 5-HT4. The exact sequence is proprietary.
Dilution	WB~~ 1:1000
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C.Stable for 12 months from date of receipt

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: 9603189). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of downstream effectors (PubMed: 16102731 , PubMed: 35714614). HTR4 is coupled to G(s) G alpha proteins and mediates activation of adenylate cyclase activity (PubMed: 16102731 , PubMed: 35714614).
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).

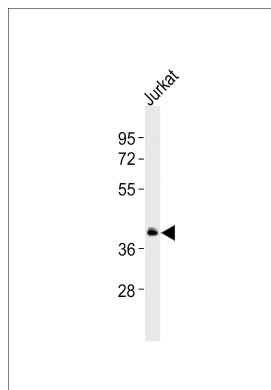
Van den Wyngaert I.,et al.Submitted (JUN-1997) to the EMBL/GenBank/DDBJ databases.

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



Anti-5-HT4 Antibody at 1:1000 dilution + Jurkat whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 44,41,43,45,48,47 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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