

5-HT4 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51275**Specification**

5-HT4 Antibody - Product Information

Application	WB
Primary Accession	Q13639
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43 KDa
Antigen Region	11 - 70

5-HT4 Antibody - 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 derived from human 5-HT4

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

5-HT4 Antibody - 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

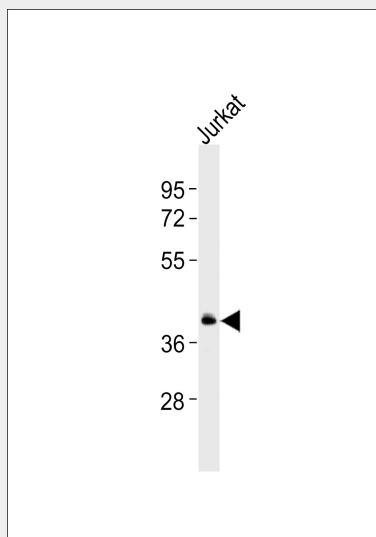
[Isoform 5-HT4(A)]: Expressed in ileum, brain, and atrium, but not in the ventricle. [Isoform 5-HT4(I)]: Expressed in all cardiovascular tissues analyzed.

5-HT4 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

5-HT4 Antibody - 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.

5-HT4 Antibody - 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.

5-HT4 Antibody - 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).