

SR-4 Polyclonal Antibody

Catalog # AP72587

Specification

SR-4 Polyclonal Antibody - Product Information

Application
Primary Accession
Reactivity
Host
Clonality

WB, IF <u>Q13639</u> Human, Rat Rabbit Polyclonal

SR-4 Polyclonal Antibody - Additional Information

Gene ID 3360

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

Dilution WB~~Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications. IF~~1:50~200

Format Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions -20°C

SR-4 Polyclonal 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:<a</pre>

href="http://www.uniprot.org/citations/16102731" target="_blank">16102731, PubMed:35714614). HTR4 is
coupled to G(s) G alpha proteins and mediates activation of adenylate cyclase activity (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.

SR-4 Polyclonal Antibody - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

SR-4 Polyclonal Antibody - Images



SR-4 Polyclonal 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.