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SR-4 Polyclonal Antibody

Catalog # AP72586

Product Information

Application	WB, IHC-P, IF
Primary Accession	Q13639
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43761

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. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/5000. Not yet tested in other applications. IHC-P~~N/A IF~~1:50~200
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

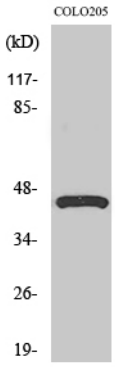
Protein Information

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.

Images



Western Blot analysis of various cells using SR-4 Polyclonal Antibody