



SR-4 Polyclonal Antibody

Catalog No	BYab-12819
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	HTR4
Protein Name	5-hydroxytryptamine receptor 4
Immunogen	The antiserum was produced against synthesized peptide derived from human 5-HT-4. AA range:21-70
Specificity	SR-4 Polyclonal Antibody detects endogenous levels of SR-4 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	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.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	HTR4; 5-hydroxytryptamine receptor 4; 5-HT-4; 5-HT4; Serotonin receptor 4
Observed Band	43kD
Cell Pathway	Cell membrane; Multi-pass membrane protein. Endosome. Interaction with SNX27 mediates recruitment to early endosomes, while interaction with SLC9A3R1 and EZR might target the protein to specialized subcellular regions, such as microvilli. .
Tissue Specificity	Isoform 5-HT4(A) is expressed in ileum, brain, and atrium, but not in the ventricle.
Function	alternative products:Additional isoforms seem to exist,function: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.,similarity:Belongs to the G-protein coupled receptor 1 family.,subcellular location:Interaction with SNX27 mediates recruitment to early endosomes, while interaction with SLC9A3R1 and EZR might target the protein to specialized subcellular regions, such as microvilli.,subunit:Isoform 5-HT4(A) interacts with

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MAGI2, MPP3, SLC9A3R1 and SNX27 isoforms 1 and 2. Isoform 5-HT4(E) interacts with INADL, NOS1 and SEC23A. Isoform 5-HT4(A) forms a complex including SLC9A3R1 and EZR.,tissue specificity:Isoform 5-HT4(A) is expressed in ileum, brain, and atrium, but not in the ventricle.

Background

This gene is a member of the family of serotonin receptors, which are G protein coupled receptors that stimulate cAMP production in response to serotonin (5-hydroxytryptamine). The gene product is a glycosylated transmembrane protein that functions in both the peripheral and central nervous system to modulate the release of various neurotransmitters. Multiple transcript variants encoding proteins with distinct C-terminal sequences have been described. [provided by RefSeq, May 2010],

matters needing attention

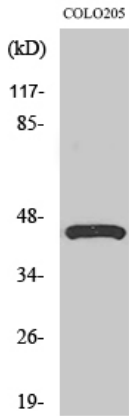
Avoid repeated freezing and thawing!

Usage suggestions

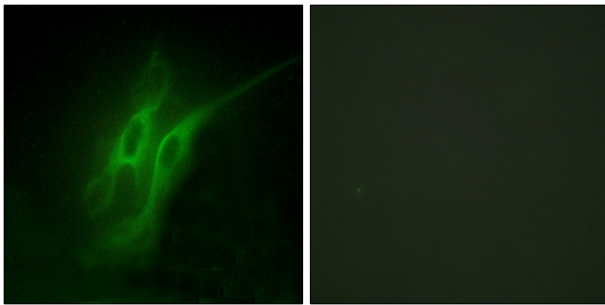
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



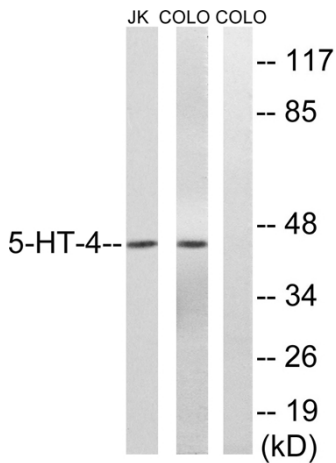
Products Images



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



Immunofluorescence analysis of HeLa cells, using 5-HT-4 Antibody. The picture on the right is blocked with the synthesized peptide.



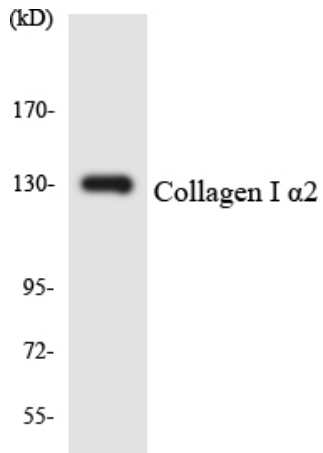
Western blot analysis of lysates from Jurkat/COLO205, using 5-HT-4 Antibody. The lane on the right is blocked with the synthesized peptide.

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Western blot analysis of the lysates from 293 cells using Collagen I α 2 antibody.