Best Tools for immunology Research

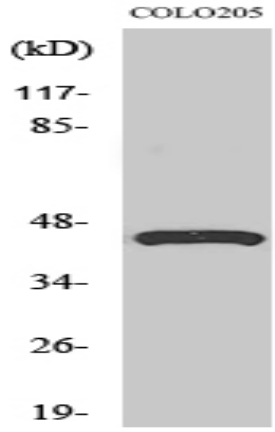
SR-4 Polyclonal Antibody

Catalog No :	YT4403
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	SR-4
Fields :	>>Calcium signaling pathway;>>cAMP signaling pathway;>>Neuroactive ligand-receptor interaction;>>Serotonergic synapse
Gene Name :	HTR4
Protein Name :	5-hydroxytryptamine receptor 4
Human Gene Id :	3360
Human Swiss Prot No :	Q13639
Mouse Gene Id :	15562
Mouse Swiss Prot No :	P97288
Rat Gene Id :	25324
Rat Swiss Prot No :	Q62758
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
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:5000. Not yet tested in other applications.

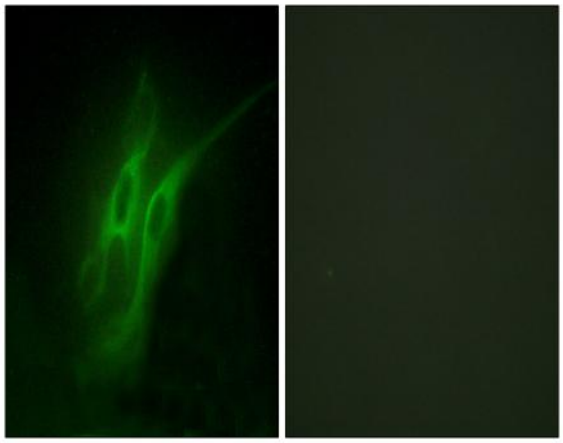
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	43kD
Cell Pathway :	Calcium;Neuroactive ligand-receptor interaction;
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],
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 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.
Subcellular Location :	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. .
Expression :	Isoform 5-HT4(A) is expressed in ileum, brain, and atrium, but not in the ventricle.
Sort :	16586
No4 :	1
Host :	Rabbit

Modifications : Unmodified

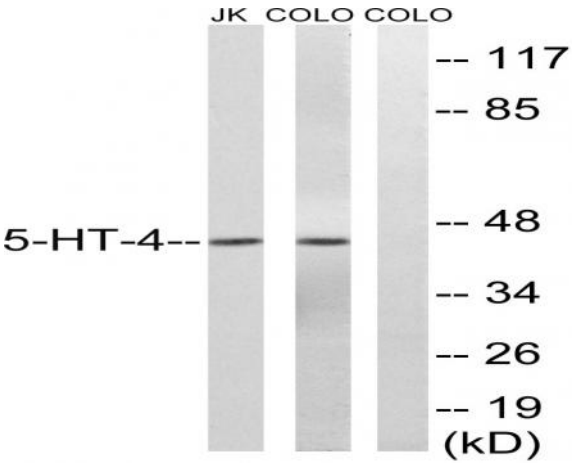
Products Images



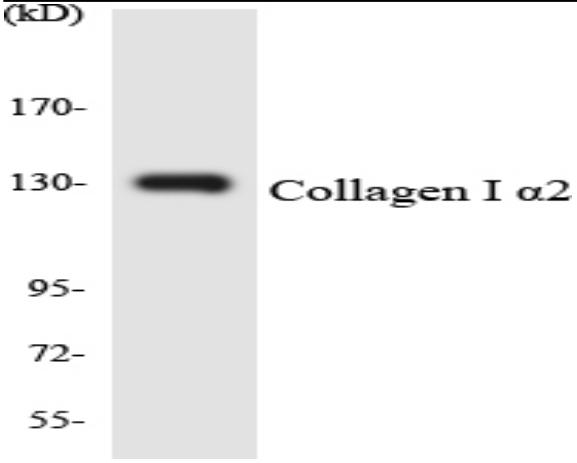
Western Blot analysis of various cells using SR-4 Polyclonal Antibody



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.



Western blot analysis of the lysates from 293 cells using Collagen I α2 antibody.