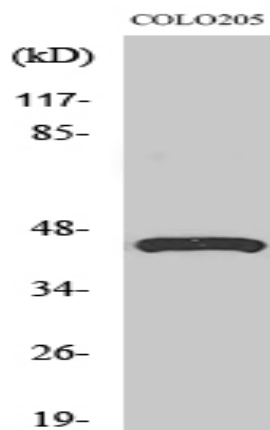


## SR-4 Polyclonal Antibody

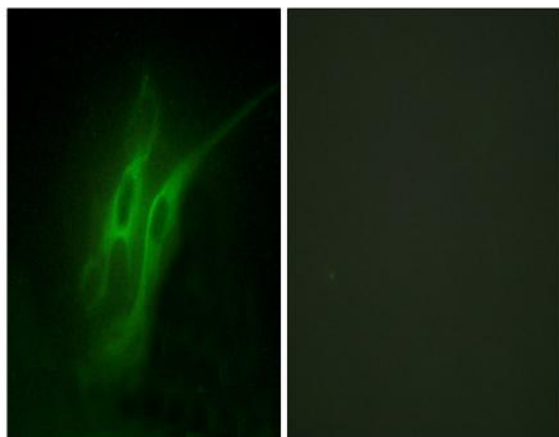
|                              |   |
|------------------------------|---|
| <b>Catalog No :</b>          | YT4403  |
| <b>Reactivity :</b>          | Human;Mouse;Rat   |
| <b>Applications :</b>        | WB;IHC;IF;ELISA   |
| <b>Target :</b>              | SR-4  |
| <b>Fields :</b>              | >>Calcium signaling pathway;>>cAMP signaling pathway;>>Neuroactive ligand-receptor interaction;>>Serotonergic synapse |
| <b>Gene Name :</b>           | HTR4  |
| <b>Protein Name :</b>        | 5-hydroxytryptamine receptor 4  |
| <b>Human Gene Id :</b>       | 3360  |
| <b>Human Swiss Prot No :</b> | Q13639  |
| <b>Mouse Gene Id :</b>       | 15562   |
| <b>Mouse Swiss Prot No :</b> | P97288  |
| <b>Rat Gene Id :</b>         | 25324   |
| <b>Rat Swiss Prot No :</b>   | Q62758  |
| <b>Immunogen :</b>           | The antiserum was produced against synthesized peptide derived from human 5-HT-4. AA range:21-70                      |
| <b>Specificity :</b>         | SR-4 Polyclonal Antibody detects endogenous levels of SR-4 protein.   |
| <b>Formulation :</b>         | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.   |
| <b>Source :</b>              | Polyclonal, Rabbit,IgG  |
| <b>Dilution :</b>            | WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:5000. Not yet tested in other applications.         |

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

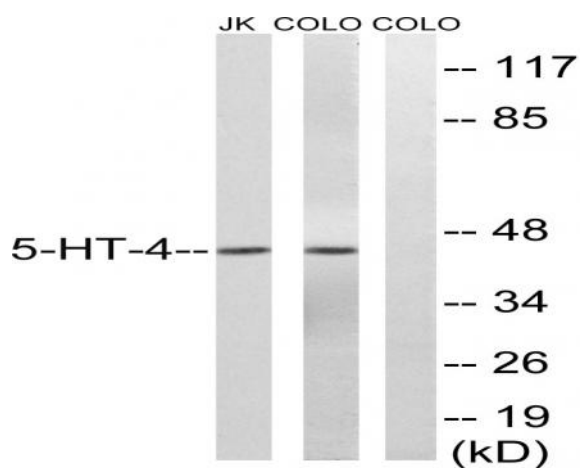
## Products Images



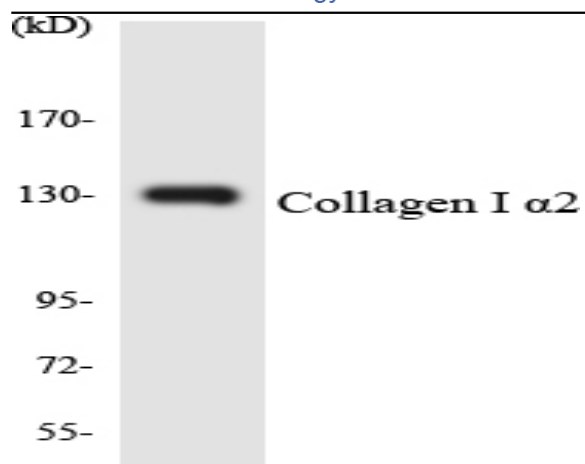
Western Blot analysis of various cells using SR-4 Polyclonal Antibody



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  $\alpha$ 2 antibody.