



SR-3A Polyclonal Antibody

Catalog No	YP-Ab-12817
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB;IHC;IF;ELISA
Gene Name	HTR3A
Protein Name	5-hydroxytryptamine receptor 3A
Immunogen	The antiserum was produced against synthesized peptide derived from human 5-HT-3A. AA range:161-210
Specificity	SR-3A Polyclonal Antibody detects endogenous levels of SR-3A 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: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	HTR3A; 5HT3R; HTR3; 5-hydroxytryptamine receptor 3A; 5-HT3-A; 5-HT3A; 5-hydroxytryptamine receptor 3; 5-HT-3; 5-HT3R; Serotonin receptor 3A; Serotonin-gated ion channel receptor
Observed Band	55kD
Cell Pathway	Cell junction, synapse, postsynaptic cell membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein.
Tissue Specificity	Expressed in cerebral cortex, amygdala, hippocampus, and testis. Detected in monocytes of the spleen and tonsil, in small and large intestine, uterus, prostate, ovary and placenta.
Function	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. This receptor is a ligand-gated ion channel, which when activated causes fast, depolarizing responses in neurons. It is a cation-specific, but otherwise relatively nonselective, ion channel.,miscellaneous:The HA-stretch region of HTR3A seems to be responsible for the low conductance of HTR3A homomers compared to that of HTR3A/HTR3B heteromers.,similarity:Belongs to the ligand-gated ionic channel (TC 1.A.9) family.,subunit:Forms pentahomomeric complex as well as pentaheteromeric complex with HTR3B or HTR3C or HTR3D or HTR3E; homomeric complex are functional but exhibit low conductance,



decreased agonist and antagonist affinity with modified voltage dependence.
Interacts with RIC3.,tissue specificity:Expressed in cer

Background

The product of this gene belongs to the ligand-gated ion channel receptor superfamily. This gene encodes subunit A of the type 3 receptor for 5-hydroxytryptamine (serotonin), a biogenic hormone that functions as a neurotransmitter, a hormone, and a mitogen. This receptor causes fast, depolarizing responses in neurons after activation. It appears that the heteromeric combination of A and B subunits is necessary to provide the full functional features of this receptor, since either subunit alone results in receptors with very low conductance and response amplitude. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008],

matters needing attention

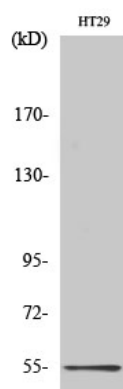
Avoid repeated freezing and thawing!

Usage suggestions

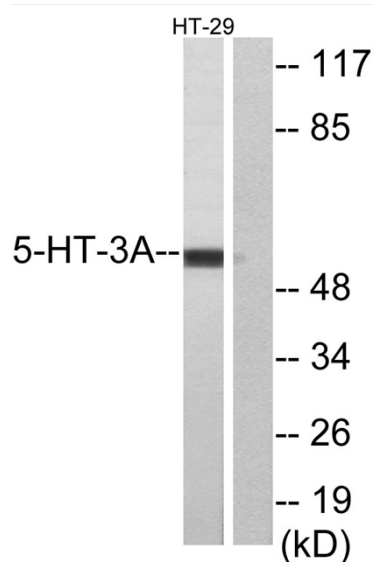
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



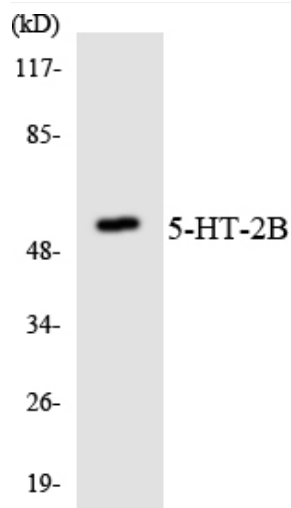
Products Images



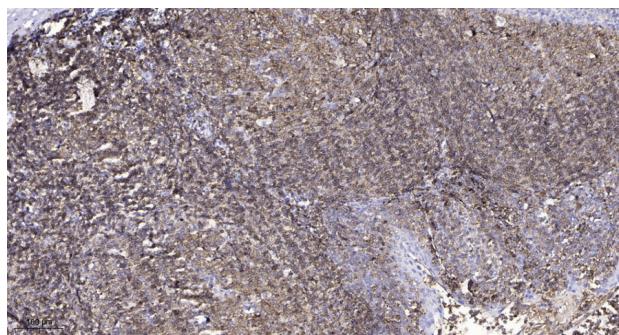
Western Blot analysis of various cells using SR-3A Polyclonal Antibody



Western blot analysis of lysates from HT-29 cells, using 5-HT-3A Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HepG2 cells using 5-HT-2B antibody.



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA, pH9.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200(room temperature, 45min).