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5HT6 Receptor Rabbit pAb

Catalog # AP97591

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	P50406
Other Accession	P50406
Predicted	Rat, Pig, Human, Mouse, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	46954
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human 5HT6 Receptor/SR-6
Epitope Specificity	51-150/440
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the G-protein coupled receptor 1 family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a protein that belongs to the seven-transmembrane G protein-coupled receptor family of proteins. The encoded protein couples with the Gs alpha subunit and stimulates adenylate cyclase to activate the cyclic AMP-dependent signaling pathway. This receptor is thought to regulate cholinergic neuronal transmission in the brain. Several antidepressants and antipsychotic drugs have a high affinity for this receptor. [provided by RefSeq, Aug 2013]

Additional Information

Gene ID	3362
Other Names	5-HT6; 5-HT6R; 5HT6R_HUMAN; HTR6; 5-HT-6; Serotonin receptor 6; 5HT6R_MOUSE; 5HT6R_RAT; ST-B17; 5-hydroxytryptamine receptor 6; 5-hydroxytryptamine (serotonin) receptor 6; 5-hydroxytryptamine (serotonin) receptor 6, G protein-coupled
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	HTR6 (HGNC:5301)
Function	G protein-coupled receptor for 5-hydroxytryptamine (serotonin), a biogenic hormone that functions as a neurotransmitter, a hormone and a mitogen (PubMed:35714614, PubMed:36989299, PubMed:37327704, PubMed:8522988). Also has a high affinity for tricyclic psychotropic drugs (By similarity). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide- binding proteins (G proteins) and modulates the activity of downstream effectors (PubMed:35714614). HTR6 is coupled to G(s) G alpha proteins and mediates activation of adenylate cyclase activity (PubMed:35714614, PubMed:37327704). Controls pyramidal neurons migration during corticogenesis, through the regulation of CDK5 activity (By similarity). Is an activator of mTOR signaling (PubMed:23027611).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Expressed in several human brain regions, most prominently in the caudate nucleus.

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