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5HT5A receptor Rabbit pAb

Catalog # AP97590

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P47898
Other Accession	P47898
Reactivity	Rat, Mouse
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	40255
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human 5HT5A receptor/SR-5A
Epitope Specificity	1-110/357
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	The neurotransmitter serotonin (5-hydroxytryptamine, 5-HT) has been implicated in a wide range of psychiatric conditions and also has vasoconstrictive and vasodilatory effects. The gene described in this record is a member of 5-hydroxytryptamine (serotonin) receptor family and encodes a multi-pass membrane protein that functions as a receptor for 5-hydroxytryptamine and couples to G-proteins. This protein has been shown to function in part through the regulation of intracellular Ca2+ mobilization. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	3361
Other Names	5-HT5A; Htr5; 5HT5A; MR22; 5HT5A_HUMAN; HTR5A; 5-HT-5; 5-HT-5A; Serotonin receptor 5A; 5HT5A_MOUSE; 5HT5A_RAT; REC17; 5-hydroxytryptamine receptor 5A; 5-hydroxytryptamine (serotonin) receptor 5A; 5-hydroxytryptamine (serotonin) receptor 5A, G protein-coupled
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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	HTR5A (HGNC:5300)
Function	G protein-coupled receptor for 5-hydroxytryptamine (serotonin), a biogenic hormone that functions as a neurotransmitter, a hormone and a mitogen (PubMed:35610220, PubMed:35835867, PubMed:9865521). Also functions as a receptor for ergot alkaloid derivatives and other psychoactive substances (PubMed:35835867). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of downstream effectors (PubMed:35610220, PubMed:35835867, PubMed:9865521). HTR5A is coupled to G(i)/G(o) G alpha proteins and mediates inhibitory neurotransmission: signaling inhibits adenylate cyclase activity and activates a phosphatidylinositol-calcium second messenger system that regulates the release of Ca(2+) ions from intracellular stores (PubMed:35610220, PubMed:35835867, PubMed:9865521).
Cellular Location	Cell membrane; Multi-pass membrane protein

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.