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Anti-5-HT5A Antibody

Catalog # AP61351

Product Information

Application	WB, IF/IC
Primary Accession	P47898
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	40255

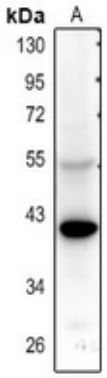
Additional Information

Gene ID	3361
Other Names	5-hydroxytryptamine receptor 5A; 5-HT-5; 5-HT-5A; 5-HT5A; Serotonin receptor 5A
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human 5-HT5A. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000), IF/IC (1/100 - 1/500) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

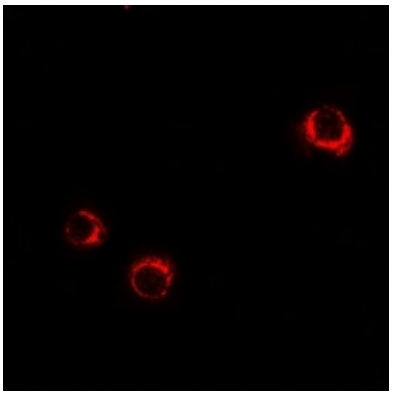
Protein Information

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

Images



Western blot analysis of 5-HT5A expression in rat kidney (A) whole cell lysates. (Predicted band size: 40 kD; Observed band size: 40 kD)



Immunofluorescent analysis of 5-HT5A staining in LOVO cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a Alexa Fluor 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

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