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5HT7 Receptor Rabbit pAb

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Catalog # AP54714

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P34969
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	53555
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human 5HT7 Receptor/SR-7
Epitope Specificity	51-150/479
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell membrane; Multi-pass membrane protein.
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, is thought to play a role in various cognitive and behavioral functions. The serotonin receptor encoded by this gene belongs to the superfamily of G protein-coupled receptors and the gene is a candidate locus for involvement in autistic disorder and other neuropsychiatric disorders. Three splice variants have been identified which encode proteins that differ in the length of their carboxy terminal ends. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	3363
Other Names	5-hydroxytryptamine receptor 7, 5-HT-7, 5-HT7, 5-HT-X, Serotonin receptor 7, HTR7 {ECO:0000303|Ref.3, ECO:0000312|HGNC:HGNC:5302}
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

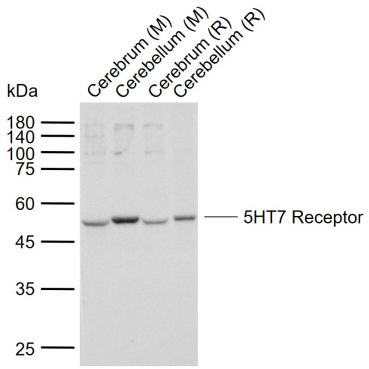
Name	HTR7 {ECO:0000303|Ref.3, ECO:0000312|HGNC:HGNC:5302}

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:8226867). 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, PubMed:8226867). HTR7 is coupled to G(s) G alpha proteins and mediates activation of adenylate cyclase activity (PubMed:35714614).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	[Isoform A]: Predominant isoform in spleen, caudate and hippocampus. [Isoform D]: Minor isoform in terms of expression.

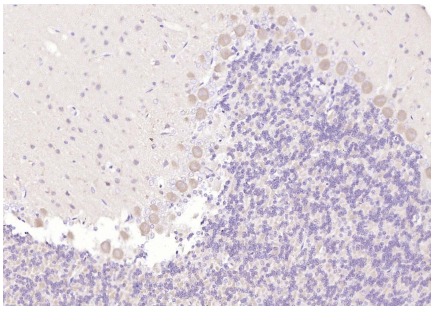
Background

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Images



Sample:
Lane 1: Mouse Cerebrum tissue lysates
Lane 2: Mouse Cerebellum tissue lysates
Lane 3: Rat Cerebrum tissue lysates
Lane 4: Rat Cerebellum tissue lysates
Primary: Anti-5HT7 Receptor (AP54714) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 54 kDa
Observed band size: 50 kDa



Paraformaldehyde-fixed, paraffin embedded (rat cerebellum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (5HT7 Receptor) Polyclonal Antibody, Unconjugated (AP54714) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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