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HTR1E Antibody (C-Term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21709b

Product Information

Application	WB, IHC-P, E
Primary Accession	P28566
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB53325
Calculated MW	41682

Additional Information

Gene ID	3354
Other Names	5-hydroxytryptamine receptor 1E, 5-HT-1E, 5-HT1E, S31, Serotonin receptor 1E, HTR1E
Target/Specificity	This HTR1E antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 223-258 amino acids from human HTR1E.
Dilution	WB~~1:2000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	HTR1E Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	HTR1E (HGNC:5291)
Function	G-protein coupled receptor for 5-hydroxytryptamine (serotonin) (PubMed:14744596, PubMed:1513320, PubMed:1608964, PubMed:1733778, PubMed:21422162, PubMed:33762731). Also functions as a receptor for various alkaloids and psychoactive substances (PubMed:14744596, PubMed:1513320, PubMed:1608964, PubMed:1733778, PubMed:21422162,

PubMed:33762731). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of downstream effectors, such as adenylate cyclase (PubMed:14744596, PubMed:1513320, PubMed:1608964, PubMed:1733778, PubMed:21422162, PubMed:33762731). HTR1E is coupled to G(i)/G(o) G alpha proteins and mediates inhibitory neurotransmission by inhibiting adenylate cyclase activity (PubMed:33762731, PubMed:35610220).

Cellular Location Cell membrane; Multi-pass membrane protein

Tissue Location Detected in brain..

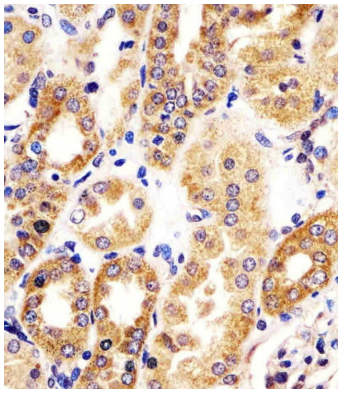
Background

G-protein coupled receptor for 5-hydroxytryptamine (serotonin). Also functions as a receptor for various alkaloids and psychoactive substances. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors, such as adenylate cyclase. Signaling inhibits adenylate cyclase activity.

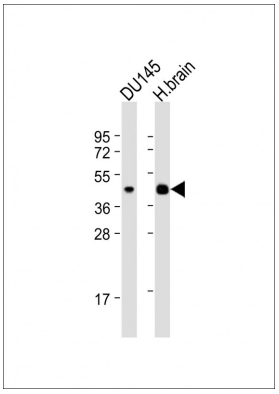
References

McAllister G.,et al.Proc. Natl. Acad. Sci. U.S.A. 89:5517-5521(1992).
Levy F.O.,et al.FEBS Lett. 296:201-206(1992).
Zgombick J.M.,et al.Mol. Pharmacol. 42:180-185(1992).
Puhl H.L. III,et al.Submitted (APR-2002) to the EMBL/GenBank/DDBJ databases.
Mungall A.J.,et al.Nature 425:805-811(2003).

Images



AP21709b staining HTR1E in human kidney tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0. 5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



All lanes : Anti-HTR1E Antibody (C-Term) at 1:2000 dilution Lane 1: DU145 whole cell lysate Lane 2: human brain lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 42 kDa Blocking/Dilution buffer: 5% NFDM/TBST.