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Anti-5-HT1D Antibody

Catalog # AP51694

Product Information

Application	WB
Primary Accession	P28221
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	41907

Additional Information

Gene ID	3352
Other Names	HTR1DA; HTRL; 5-hydroxytryptamine receptor 1D; 5-HT-1D; 5-HT1D; Serotonin 1D alpha receptor; 5-HT-1D-alpha; Serotonin receptor 1D
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human 5-HT1D. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000)
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

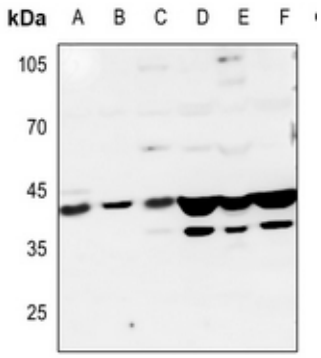
Name	HTR1D (HGNC:5289)
Synonyms	HTR1DA, HTRL
Function	G protein-coupled receptor for 5-hydroxytryptamine (serotonin) (PubMed:10452531, PubMed:1565658, PubMed:1652050, PubMed:33762731). Also functions as a receptor for ergot alkaloid derivatives, various anxiolytic and antidepressant drugs and other psychoactive substances (PubMed:10452531, PubMed:1565658, PubMed:1652050, 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:10452531, PubMed:1565658, PubMed:1652050, PubMed:33762731). HTR1D is coupled to G(i)/G(o) G alpha proteins and mediates inhibitory neurotransmission by inhibiting adenylate cyclase activity (PubMed:33762731). Regulates the release of 5- hydroxytryptamine in the brain, and thereby affects neural activity (PubMed:18476671, PubMed:20945968). May also play a role in

	regulating the release of other neurotransmitters (PubMed:18476671, PubMed:20945968). May play a role in vasoconstriction (PubMed:18476671, PubMed:20945968).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Detected in brain neocortex and caudate nucleus (at protein level).

References

Hamblin M.W.,et al.Mol. Pharmacol. 40:143-148(1991).
Weinshank R.L.,et al.Proc. Natl. Acad. Sci. U.S.A. 89:3630-3634(1992).
Puhl H.L. III,et al.Submitted (APR-2002) to the EMBL/GenBank/DDBJ databases.
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Gregory S.G.,et al.Nature 441:315-321(2006).

Images



Western blot analysis of 5-HT1D expression in A549 (A), U2OS (B), mouse testis (C), mouse spleen (D), rat testis (E), rat spleen (F) whole cell lysates. (Predicted band size: 41 kD; Observed band size: 42 kD)

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