

Product datasheet for **TA329057**

Htr1d Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:200-1:2000
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide (C)EASNRSLNATGAWD, corresponding to amino acid residues 14-27 of rat 5-hydroxytryptamine receptor 1D (Accession P28565. Extracellular, N-terminus.
Formulation:	Lyophilized. Concentration before lyophilization ~0.8mg/ml (lot dependent, please refer to CoA along with shipment for actual concentration). Buffer before lyophilization: Phosphate buffered saline (PBS), pH 7.4, 1% BSA, 0.05% NaN ₃ .
Reconstitution Method:	Add 50 ul double distilled water (DDW) to the lyophilized powder.
Purification:	Affinity purified on immobilized antigen
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	5-hydroxytryptamine receptor 1D
Database Link:	NP_036984 Entrez Gene 3352 Human Entrez Gene 25323 Rat P28565



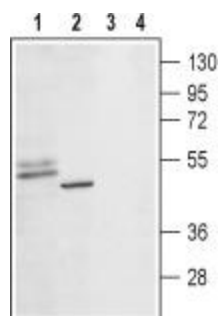
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Background:

Serotonin (5-hydroxytryptamine, 5-HT) plays unequivocally a most important role in the normal physiology amongst higher eukaryotes, as do most neurotransmitters. The physiological roles of serotonin and its receptors range from appetite, regulation of the circadian rhythm, sexual behavior, memory and nociception. Serotonin is also involved in migraine and some psychiatric diseases such as depression anxiety and aggression. Serotonin and its receptors also have an influence on the cardiovascular, pulmonary, gastrointestinal (GI) and genitourinary systems. To date, some fifteen serotonin receptors have been cloned and grouped into seven families (5-HT₁-5-HT₇) based on their signaling mechanisms. The 5-HT₁ receptor class comprises 5 different receptors with ranging homology. Apart from 5-HT₃, all serotonin receptors belong to the G-Protein Coupled Receptor superfamily and therefore span the membrane seven times. Members of 5-HT₁ receptor class all couple Gi/o thereby inhibiting adenylate cyclase. In the central nervous system, 5-HT_{1D} is expressed in the basal ganglia, hippocampus and cortex in rat and in the basal ganglia, midbrain and spinal cord in human. In serotonin neurons, 5-HT_{1D} receptors are autoreceptors thereby inhibiting the release of 5-HT. In GABA, ACh, and glutamate neurons they are heteroreceptors where they control the release of these neurotransmitters. As mentioned above, the serotonin system plays an undeniable role in the perception and processing of pain. Indeed, many migraine sufferers are prescribed triptan-based drugs which activate 5-HT_{1B} and 5-HT_{1D} receptors.

Synonyms:

5-HT-1D; 5-HT-1D-alpha; 5-HT1D; HT1DA; HTR1DA; HTRL; OTTHUMP00000003270; RDC4

Product images:


Western blot analysis of rat prostate (lanes 1 and 3) and PC-3 cell (lanes 2 and 4) lysates: 1, 3. Anti-5-hydroxytryptamine Receptor 1D (extracellular) antibody, (1:200). 2, 4. Anti-5-Hydroxytryptamine Receptor 1D (extracellular) antibody, preincubated with the control peptide antigen.