Product datasheet for TA329056

Htr1a Rabbit Polyclonal Antibody

Product data:

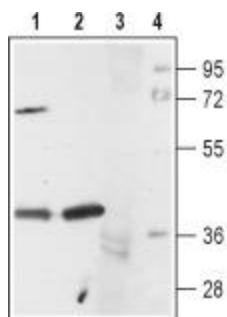|	
Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1:200-1:2000; IHC: 1:100-1:3000
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide KKSLNGQPGSGDWRRC, corresponding to amino acid residues 251-266 of rat 5-Hydroxytryptamine Receptor 1A (Accession P19327). 3rd intracellular loop.
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% NaN3.
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 1A
Database Link:	NP_036717 Entrez Gene 15550 MouseEntrez Gene 24473 Rat P19327

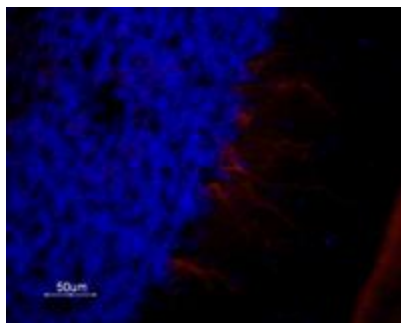View online »

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Background: Serotonin [5-hydroxytryptamine (5-HT1)] is an important neurotransmitter in the CNS that exerts its neuronal activity via 5-HT receptors. 5-HT receptors are subdivided into seven families termed 5-HT1 through 5-HT7. The 5-HT receptor families belong to the G-Protein Coupled receptor superfamily with the exception of 5-HT3 receptor class which belongs to the ligand-gated ion channels. The 5-HT1 receptor class comprises of five different receptors (5-HT1A, 5-HT1B, 5-HT1D, 5-HT1e AND 5-HT1F) which share 41-63% overall sequence identity and couple preferentially to Gi/Go to inhibit cAMP formation. The 5-HT1A receptor is the most widespread of all the 5-HT receptors. In the central nervous system, 5-HT1A receptors exist in the cerebral cortex, hippocampus, septum, amygdala and raphe nucelus in high densities, and was also demonstrated in a variety of tissues from various species. Activation of 5-HT1A receptor decreases blood pressure and heart rate, involved in learning, memory, relieving anxiety and depression.

Synonyms: 5-HT-1A; 5-HT1A; 5HT1a; ADRB2RL1; ADRBRL1; G-21

Product images:

Western blot analysis of mouse brain membrane (lanes 1 and 3) and rat brain membrane (lanes 2 and 4): 1, 2. Anti-5-Hydroxytryptamine Receptor 1A antibody, (1:200). 3, 4. Anti-5-Hydroxytryptamine Receptor 1A antibody, preincubated with the control peptide antigen

Expression of 5-HT1A in rat cerebellum. Immunohistochemical staining of rat cerebellum frozen section using Anti-5-Hydroxytryptamine Receptor 1A antibody, (1:100). 5HT1A is expressed in Purkinje cells (red). Hoechst 33342 is used as the counterstain.