Datasheet for ABIN617930

anti-Serotonin Receptor 1A antibody (AA 294-312)

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Overview

Quantity:	0.1 mL
Target:	Serotonin Receptor 1A (HTR1A)
Binding Specificity:	AA 294-312
Reactivity:	Human, Rat, Mouse, Monkey, Guinea Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Serotonin Receptor 1A antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC), Immunoelectron Microscopy (IEM)

Product Details

Immunogen:	Rat 5-HT1A receptor (294-312)
Isotype:	IgG
Cross-Reactivity:	Human, Mouse (Murine), Rat (Rattus)
Characteristics:	The 5-HT 1A Receptor Antibody was raised against synthetic peptide sequence corresponding to amino acids 294-312 of the rat 5-HT1A receptor. The antiserum is provided as 100 µL of affinity purified serum containing 1 % BSA. The antiserum demonstrates strongly positive labeling of rat cortex, arcuate and hippocampus using indirect immunofluorescent and biotin/avidin-HRP techniques. Recommended primary dilutions are 1/100 - 1/200 in PBS - Bn/Av-HRP detection. Intensification methods such as nickel will approximately double the dilution factor as recommended. The antibody was characterized by immunohistochemistry

Product Details

	and Western blot. Western blot showed a single band of approximately 45 kD. Preincubation of the antibody with an excess of the synthetic peptide blocked staining. Immunohistochemical staining of rat brain correlates well with Northern analysis, in situ hybridization and receptor autoradiography. BlastP database sequence homology searches confirmed that this sequence is unique to rat, mouse and human 5-HT1A receptors.
Purification:	Affinity Purified

Target Details

Target:	Serotonin Receptor 1A (HTR1A)
Abstract:	HTR1A Products
Background:	Other Names: 5-hydroxytryptamine receptor 1A, ADRB2RL1, ADRBRL1,RAT5HT1A, 5-hydroxytryptamine (serotonin) receptor 1A, G protein-coupled
Gene ID:	24473
Pathways:	JAK-STAT Signaling, Synaptic Membrane, Feeding Behaviour

Application Details

Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Contains ≤ 0.09 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage Comment:	After reconstitution, use immediately or refrigerate at 2 - 8 °C up to 2 days. For long-term storage aliquot antibody and freeze at -15 °C or lower. Avoid repeated freeze/thaw cycles.

Publications

Product cited in:	Lee, Ahn, Won: "New expression of 5-HT1A receptor in astrocytes in the gerbil hippocampal

Publications

CA1 region following transient global cerebral ischemia." in: **Neurological sciences : official journal of the Italian Neurological Society and of the Italian Society of Clinical Neurophysiology**, Vol. 36, Issue 3, pp. 383-9, (2016) (PubMed).

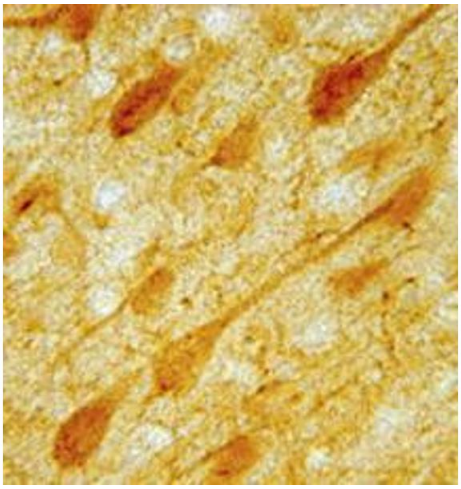
Wang, Wang, Zou, Qu, Liu, Fei, Xia, Needleman, Mikami, Wood: "Mast cell expression of the serotonin1A receptor in guinea pig and human intestine." in: **American journal of physiology. Gastrointestinal and liver physiology**, Vol. 304, Issue 10, pp. G855-63, (2013) (PubMed).

Ahn, Balaban: "Distribution of 5-HT1B and 5-HT1D receptors in the inner ear." in: **Brain research**, Vol. 1346, pp. 92-101, (2010) (PubMed).

Hadjighassem, Austin, Szewczyk, Daigle, Stockmeier, Albert: "Human Freud-2/CC2D1B: a novel repressor of postsynaptic serotonin-1A receptor expression." in: **Biological psychiatry**, Vol. 66, Issue 3, pp. 214-22, (2009) (PubMed).

Chalazonitis, Pham, Li, Roman, Guha, Gomes, Kan, Kessler, Gershon: "Bone morphogenetic protein regulation of enteric neuronal phenotypic diversity: relationship to timing of cell cycle exit." in: **The Journal of comparative neurology**, Vol. 509, Issue 5, pp. 474-92, (2008) (PubMed).

Images



Immunohistochemistry

Image 1. IHC image of neurons in rat cortex.