Datasheet for ABIN7043617

anti-5HT1B Receptor antibody (Extracellular) (Atto 488)

1 Image

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Overview

Quantity:	50 µL
Target:	5HT1B Receptor (HTR1B)
Binding Specificity:	AA 33-49, Extracellular
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This 5HT1B Receptor antibody is conjugated to Atto 488
Application:	Immunofluorescence (IF), Immunohistochemistry (IHC), Flow Cytometry (FACS), Live Cell Imaging (LCI)

Product Details

Purpose:	A Rabbit Polyclonal Antibody to 5-Hydroxytryptamine Receptor 1B Conjugated to the Fluorescent Dye ATTO-488
Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: CSAKDYIYQDSISLPWK, corresponding to amino acid residues 33-49 of human 5-Hydroxytryptamine receptor 1B
Isotype:	IgG
Specificity:	Extracellular, N-terminus
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Rat - 15,17 amino acid residues identical, mouse - 14

Product Details

Characteristics:	Anti-5HT1B Receptor (HTR1B) (extracellular) Antibody (ABIN7043616, ABIN7045280 and ABIN7045281) is a highly specific antibody directed against an epitope of the human 5-Hydroxytryptamine receptor 1B. The antibody can be used in western blot and immunohistochemistry applications. It has been designed to recognize 5HT1B receptor from human, rat, and mouse samples. \nAnti-5HT1B Receptor (HTR1B) (extracellular)-ATTO Fluor-488 Antibody (ABIN7043617) is directly labeled with an fluorescent dye. ATTO dyes are characterized by strong absorption (high extinction coefficient), high fluorescence quantum yield, and high photo-stability. The label is analogous to the well-known dye fluorescein isothiocyanate (FITC) and can be used with filters typically used to detect FITC. Anti-5HT1B Receptor (HTR1B) (extracellular)-ATTO Fluor-488 Antibody is specially suited to experiments requiring simultaneous labeling of different markers.
Purification:	Affinity purified on immobilized antigen.

Target Details

Target:	5HT1B Receptor (HTR1B)
Alternative Name:	HTR1B (HTR1B Products)
Background:	5-Hydroxytryptamine receptor 1B, Serotonin receptor 1B, Serotonin 1D beta receptor, 5HT1D-beta, HTR1DB, HTR1D2,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 aggression1. Serotonin and its receptors also have an influence on the cardiovascular, pulmonary, gastrointestinal (GI) and genitourinary systems2.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 times3.The 5-hydroxytryptamine receptor 1B (5-HT1B) is involved in several physiological behaviors and psychiatric diseases, including locomotor activity, drug abuse reinforcement, migraine, anxiety states and aggressive behaviors1.Pharmacological studies suggest that 5-HT1B is expressed by both serotonergic and non-serotonergic neurons. In the nervous system, this receptor is located in the axon terminal of the plasma membrane of unmyelinated axons. It is predominantly localized on pre-synaptic membranes. Signal transduction studies of the receptor indicate that this receptor is

Target Details

	coupled negatively to adenylyl cyclase as its activation induces a decrease in adenylyl cyclase activity1. Alternative names: 5HT1B Receptor (HTR1B), 5-Hydroxytryptamine receptor 1B, Serotonin receptor 1B, Serotonin 1D beta receptor, 5HT1D-beta, HTR1DB, HTR1D2
Gene ID:	3351
NCBI Accession:	NM_000863
UniProt:	P28222
Pathways:	JAK-STAT Signaling, cAMP Metabolic Process, Regulation of G-Protein Coupled Receptor Protein Signaling, Feeding Behaviour, S100 Proteins

Application Details

Application Notes:	Antigen preadsorption control: 1 µg peptide per 1 µg antibody Application Dilutions Immunohistochemistry paraffin embedded sections ihc: 1:80 Application Dilutions Western blot wb: N/A
Comment:	Negative Control: (ABIN7582041) Blocking Peptide: (ABIN7236784)
Restrictions:	For Research Use only

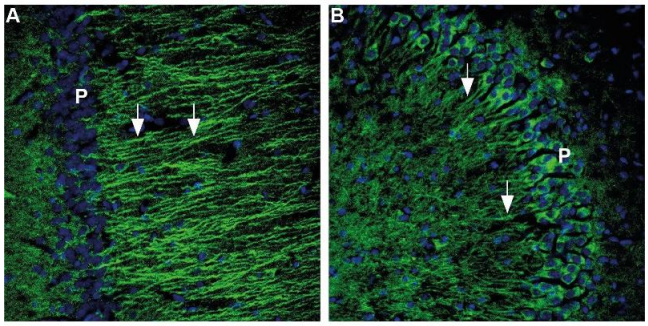
Handling

Format:	Lyophilized
Reconstitution:	Recosntitute with double distilled water (DDW) to a concentration of 1.0 mg/mL.
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4, 1 % BSA with 0.05 % 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:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C.

Handling

Storage after reconstitution: The reconstituted solution can be stored at 4°C, protected from the light, for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).

Images



Immunohistochemistry

Image 1. Expression of 5-Hydroxytryptamine receptor 1B in rat and mouse brain - Immunohistochemical staining of rat and mouse brain sections using Anti-5HT1B Receptor (HTR1B) (extracellular)-ATTO Fluor-488 Antibody (ABIN7043617), (1:80). A. 5-HT1B receptor staining (green) in rat hippocampal CA1 region is detected near the pyramidal layer (P) and in apical dendrites (arrows). B. In mouse hippocampal CA1 region, 5-HT1B receptor staining (green) appears in the pyramidal layer (P) and in apical dendrites. Nuclei are stained using DAPI (blue).