Datasheet for ABIN7043286

anti-HCRTR1 antibody (3rd Intracellular Loop) (Atto 488)

1 Image

Go to Product page

Overview

Quantity:	50 µL
Target:	HCRTR1
Binding Specificity:	3rd Intracellular Loop, AA 256-269
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HCRTR1 antibody is conjugated to Atto 488
Application:	Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)RNWKRPSEQLEAQH, corresponding to amino acid residues 256-269 of rat OX1R
Isotype:	IgG
Characteristics:	Anti-Orexin Receptor 1 Antibody (ABIN7043285, ABIN7044883 and ABIN7044884)) is a highly specific antibody directed against an epitope of the rat protein. The antibody can be used in western blot, immunocytochemistry, and immunohistochemistry applications. It has been designed to recognize OX1R from rat, mouse, and human samples. \nAnti-Orexin Receptor 1-ATTO Fluor-488 Antibody (#ABIN7043286) is directly labeled with an ATTO-488 fluorescent dye. ATTO dyes are characterized by strong absorption (high extinction coefficient), high fluorescence quantum yield, and high photo-stability. The ATTO-488 label is analogous to the well known dye fluorescein isothiocyanate (FITC) and can be used with filters typically used to

Product Details

	detect FITC. Anti-Orexin Receptor 1-ATTO Fluor-488 Antibody is especially suited for experiments requiring simultaneous labeling of different markers.
Purification:	Affinity purified on immobilized antigen.

Target Details

Target:	HCRTR1
Alternative Name:	Orexin Receptor 1 (HCRTR1 Products)
Background:	Alternative names: Orexin Receptor 1, OX1R, Hypocretin receptor type 1, HCRTR1
Gene ID:	25593
NCBI Accession:	NM_001525
UniProt:	P56718
Pathways:	Feeding Behaviour

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

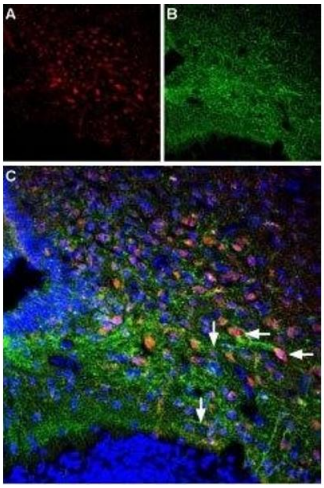
Handling

Format:	Lyophilized
Reconstitution:	50 µL double distilled water (DDW).
Concentration:	1 mg/mL
Buffer:	Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 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:	RT,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. Multiplex staining of OX1R and Parathyroid hormone 1 receptor in rat ventromedial hypothalamus - Immunohistochemical staining of perfusion-fixed frozen rat brain sections using Anti-Orexin Receptor 1-ATTO Fluor-488 Antibody (ABIN7043286), (1:60) and Anti-PTH1R (extracellular) Antibody (ABIN7043429, ABIN7045112 and ABIN7045113), (1:60). A. Sections were incubated with Anti-PTH1R (extracellular) Antibody, followed by donkey-anti-rabbit-Cy3 (red). B. The same sections were incubated with Anti-Orexin Receptor 1-ATTO Fluor-488 Antibody, (green). C. Merge of A and B shows staining of OX1R in nerve fibers (vertical arrows) while Parathyroid hormone 1 receptor is apparent on cell bodies (horizontal arrows). Cell nuclei are stained with DAPI (blue).