Datasheet for ABIN7042926

anti-Angiotensin II Type 2 Receptor antibody (Extracellular, N-Term) (Atto 488)

3 Images

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Overview

Quantity:	50 µL
Target:	Angiotensin II Type 2 Receptor (AGTR2)
Binding Specificity:	AA 21-35, Extracellular, N-Term
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Angiotensin II Type 2 Receptor antibody is conjugated to Atto 488
Application:	Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunofluorescence (IF), Live Cell Imaging (LCI)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: DNLNATGTNESAFNC, corresponding to amino acid residues 21-35 of rat AT2 receptor
Isotype:	IgG
Cross-Reactivity (Details):	Will not recognize human AT2 Receptor.
Characteristics:	Anti-Angiotensin II Receptor Type-2 (extracellular) Antibody (ABIN7042925, ABIN7043902 and ABIN7043903)) is a highly specific antibody directed against an extracellular epitope of the rat protein. The antibody can be used in western blot, immunocytochemistry and immunohistochemistry applications. It has been designed to recognize AT2 receptor from rat and mouse samples. The antibody won't recognize human AT2R. \nAnti-Angiotensin II

Product Details

	Receptor Type-2 (extracellular)-ATTO Fluor-488 Antibody (#ABIN7042926) 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 detect FITC. Anti-Angiotensin II Receptor Type-2 (extracellular)-ATTO Fluor-488 Antibody has been tested in live cell imaging and immunohistochemical applications and is specially suited to experiments requiring simultaneous labeling of different markers.
Purification:	Affinity purified on immobilized antigen.

Target Details

Target:	Angiotensin II Type 2 Receptor (AGTR2)
Alternative Name:	Angiotensin II Receptor Type-2 (AGTR2 Products)
Background:	Alternative names: Angiotensin II Receptor Type-2, AT2 Receptor, AT2R, AGTR2, MRX88
Gene ID:	24182
NCBI Accession:	NM_000686
UniProt:	P35351
Pathways:	ACE Inhibitor Pathway, Hormone Transport, Regulation of Systemic Arterial Blood Pressure by Hormones

Application Details

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

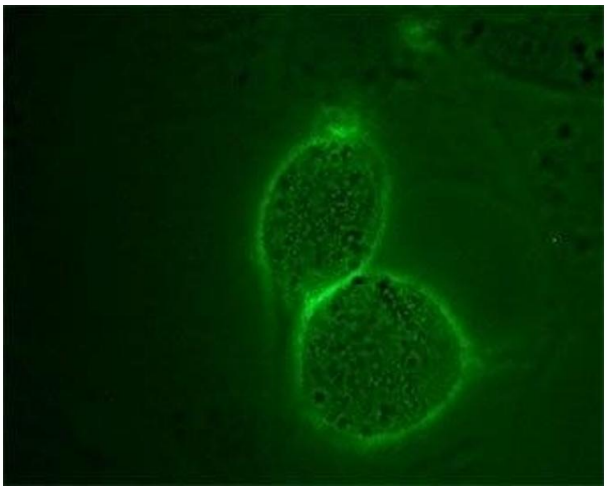
Handling

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.

Handling

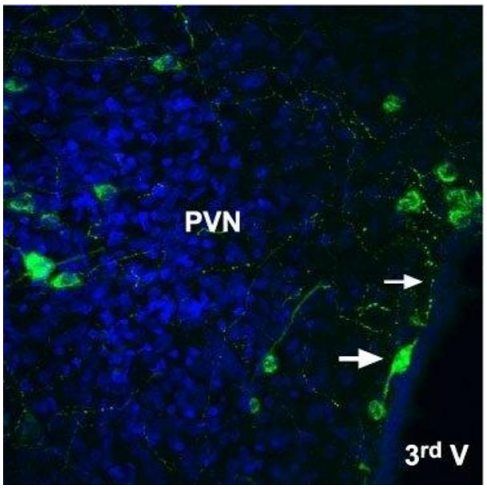
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	RT,4 °C,-20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. 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



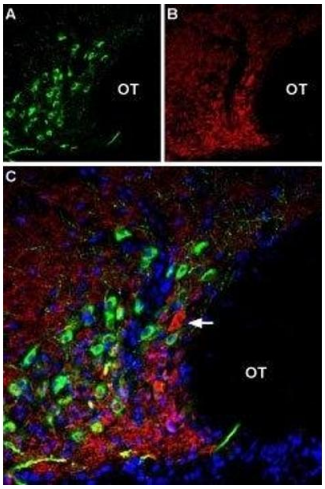
Immunocytochemistry

Image 1. Expression of Angiotensin II receptor type-2 in mouse 3T3-L1 cells - Cell surface detection of Angiotensin II receptor type-2 in intact live mouse 3T3-L1 cells with Anti-Angiotensin II Receptor Type-2 (extracellular)-ATTO Fluor-488 Antibody (ABIN7042926), (1:50), (green). Live view of the same field was superimposed to the fluorescent one.



Immunohistochemistry

Image 2. Expression of Angiotensin II receptor type-2 in rat brain - Immunohistochemical staining of rat frozen free floating brain sections using Anti-Angiotensin II Receptor Type-2 (extracellular)-ATTO Fluor-488 Antibody (ABIN7042926), (1:20). AT2 receptor (green) was detected in neurons in the vicinity of the hypothalamic paraventricular nucleus (PVN). In some neurons (thick arrow), axonal processes with varicosities were observed (thin arrow). Nuclei were visualized with DAPI counterstain (blue).



Immunohistochemistry

Image 3. Multiplex staining of AT2 receptor and VGLUT2 in rat supraoptic hypothalamic nucleus - Immunohistochemical staining of perfusion-fixed frozen rat brain sections using Anti-Angiotensin II Receptor Type-2 (extracellular)-ATTO Fluor-488 Antibody (ABIN7042926), (1:60) and Anti-VGLUT2-ATTO Fluor-594 Antibody (ABIN7043682), (1:60). A. AT2 receptor staining (green). B. VGLUT2 staining (red). C. Merge of the two images shows a general lack of co-localization of AT2R and VGLUT2 in this part of the hypothalamus (arrow). Cell nuclei are stained with DAPI (blue).

