Datasheet for ABIN7042923

anti-Angiotensin II Type-1 Receptor antibody (Extracellular, N-Term) (Atto 550)

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Overview

Quantity:	50 µL
Target:	Angiotensin II Type-1 Receptor (AGTR1)
Binding Specificity:	AA 4-18, Extracellular, N-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Angiotensin II Type-1 Receptor antibody is conjugated to Atto 550
Application:	Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC), Live Cell Imaging (LCI)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: NSSTEDGIKRIQDDC, corresponding to amino acid residues 4-18 of human AT1
Isotype:	IgG
Characteristics:	Anti-Angiotensin II Receptor Type-1 (extracellular) Antibody (ABIN7042922, ABIN7043900 and ABIN7043901)) is a highly specific antibody directed against an extracellular epitope of human protein. The antibody can be used in western blot, immunohistochemistry, immunocytochemistry and indirect flow cytometry applications, and will recognize AT1 receptor from rat, mouse and human samples. \nAnti-Angiotensin II Receptor Type-1 (extracellular)-ATTO Fluor-550 Antibody (#ABIN7042923) is directly labeled with an ATTO-550 fluorescent dye. ATTO dyes are characterized by strong absorption (high extinction coefficient),

Product Details

	high fluorescence quantum yield, and high photo-stability. The ATTO-550 fluorescent label is related to the well known dye Rhodamine 6G and can be used with filters typically used to detect Rhodamine. Anti-Angiotensin II Receptor Type-1 (extracellular)-ATTO Fluor-550 Antibody has been tested in immunocytochemistry and immunohistochemistry applications and is especially suited for experiments requiring simultaneous labeling of different markers.
Purification:	Affinity purified on immobilized antigen.

Target Details

Target:	Angiotensin II Type-1 Receptor (AGTR1)
Alternative Name:	Angiotensin II Receptor Type-1 (AGTR1 Products)
Background:	Alternative names: Angiotensin II Receptor Type-1, AT1 Receptor, AT1R, AGTR1
Gene ID:	185
NCBI Accession:	NM_000685
UniProt:	P30556
Pathways:	JAK-STAT Signaling, ACE Inhibitor Pathway, Regulation of Systemic Arterial Blood Pressure by Hormones, Feeding Behaviour

Application Details

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

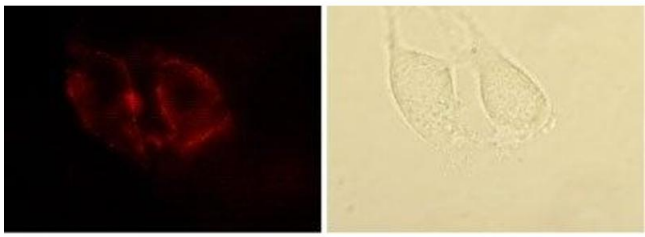
Handling

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.

Handling

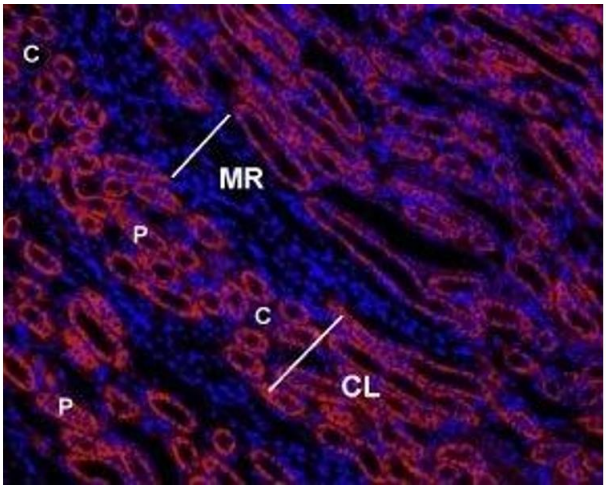
Storage:	RT,4 °C,-20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. Storage after reconstitution: The reconstituted solution can be stored at 4°C, protected from the light, for up to 1 week. 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



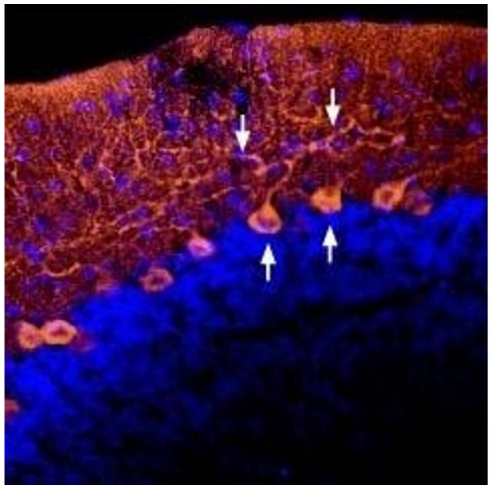
Immunocytochemistry

Image 1. Expression of Angiotensin II Receptor Type-1 in rat C6 glioma cells - Cell surface detection of Angiotensin II Receptor Type-1 in live intact rat C6 glioma cells with Anti-Angiotensin II Receptor Type-1 (extracellular)-ATTO Fluor-550 Antibody (ABIN7042923), (1:50), (left panel). Right panel shows live view of the same field.



Immunohistochemistry

Image 2. Expression of AGTR1 in rat kidney - Immunohistochemical staining of rat kidney paraffin-embedded sections using Anti-Angiotensin II Receptor Type-1 (extracellular)-ATTO Fluor-550 Antibody (ABIN7042923), (1:50), (red). Staining is specific to the innermost layer of the cortex. Intense staining is present in proximal tubes (P) but not in collecting ducts (C) in the cortical labyrinths (CL). No staining is present both in thin portions of the Loop of Henle or in the collecting ducts in the medullar rays (MR). Hoechst 33342 (blue) is used to visualize the nuclei.



Immunohistochemistry

Image 3. Expression of AGTR1 in rat cerebellum - Immunohistochemical staining of perfusion-fixed frozen rat brain sections using Anti-Angiotensin II Receptor Type-1 (extracellular)-ATTO Fluor-550 Antibody (ABIN7042923), (1:60). AT1R staining (orange) appears in the soma (upward arrows) and in the dendritic tree (downward arrows). Nuclei are labeled with DAPI (blue).

