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Datasheet for ABIN668621

anti-Angiotensin II Type 2 Receptor antibody (Cy5.5)

Overview

Quantity:	100 µL
Target:	Angiotensin II Type 2 Receptor (AGTR2)
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Angiotensin II Type 2 Receptor antibody is conjugated to Cy5.5
Application:	Western Blotting (WB), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from mouse AT2R1
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rabbit, Rat
Purification:	Purified by Protein A.

Target Details

Target:	Angiotensin II Type 2 Receptor (AGTR2)
Alternative Name:	AT2R (AGTR2 Products)
Background:	Synonyms: AG2S, Agtr 1, Agtr1, AGTR1_HUMAN, Agtr1a, AGTR1B, Ang II, Angiotensin II receptor type 1, Angiotensin II type 1 receptor, Angiotensin II type-1 receptor, Angiotensin receptor 1, Angiotensin receptor 1B, AT 1B, AT 1r, AT-1B, AT-1r, AT1, At1a, AT1AR, AT1B, AT1BR, AT1R, AT2R1, AT2R1A, AT2R1B, HAT1R, Type 1 angiotensin II receptor, Type 1B

Target Details

angiotensin II receptor, Type-1 angiotensin II receptor.

Background: Angiotensin II (Ang II) is an important physiological effector of blood pressure and volume regulation through vasoconstriction, aldosterone release, sodium uptake and thirst stimulation. Although Ang II interacts with two types of cell surface receptors, AT1 and AT2, most of the major cardiovascular effects seem to be mediated through AT1. Molecular cloning of the AT1 protein has shown it to be a member of the G protein-associated seven transmembrane protein receptor family. Ang II treatment of cells results in activation of several signal transduction pathways as evidenced by tyrosine phosphorylation of several proteins and induction of others. PLC β is phosphorylated after 30 seconds of treatment with Angiotensin II, indicating this as an early signal transduction event. Ang II treatment also stimulates phosphorylation of Shc, FAK and MAP kinases, and induces MKP-1, indicating stimulation of growth factor pathways. Ang II stimulation through AT1 has been shown to activate the JAK/Stat pathway involving a direct interaction between JAK2 and AT1 as demonstrated by coimmunoprecipitation. The AT1 receptor has no cytoplasmic kinase domain, but is able to function as a substrate for Src kinases and has several putative phosphorylation sites.

Gene ID: 11607

Pathways: [ACE Inhibitor Pathway](#), [Hormone Transport](#), [Regulation of Systemic Arterial Blood Pressure by Hormones](#)

Application Details

Application Notes: FCM(1:100-500)
IF(IHC-P)(1:100-500)
Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 $\mu\text{g}/\mu\text{L}$

Buffer: Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

Expiry Date: 12 months