

Datasheet for ABIN7042921
anti-MAS1 antibody (AA 212-224)



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1 Image

Overview

Quantity:	25 µL
Target:	MAS1
Binding Specificity:	AA 212-224
Reactivity:	Rat
Host:	Guinea Pig
Clonality:	Polyclonal
Conjugate:	This MAS1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	A Guinea Pig Polyclonal Antibody to Angiotensin-(1-7) Mas Receptor
Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)KIRKNTWASHSSK, corresponding to amino acid residues 212-224 of the rat Angiotensin-(1-7) Mas receptor
Isotype:	IgG
Specificity:	3rd intracellular loop
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Mouse,human - identical
Characteristics:	Guinea pig Anti-Angiotensin-(1-7) Mas Receptor Antibody is directed against an epitope of the rat protein. Guinea pig Anti-Angiotensin-(1-7) Mas Receptor Antibody raised in guinea pig can

Product Details

be used in western blot analysis. It has been designed to recognize Ang-(1-7) Mas receptor from rat, mouse and human samples. The antigen used to immunize guinea pigs is the same as Anti-Angiotensin-(1-7) Mas Receptor Antibody (ABIN7042920, ABIN7043904 and ABIN7043905) raised in rabbit. Our line of guinea pig antibodies enables more flexibility with our products such as multiplex staining studies, immunoprecipitation, etc.

Purification: Affinity purified on immobilized antigen.

Target Details

Target: MAS1

Alternative Name: MAS1 ([MAS1 Products](#))

Background: Proto-oncogene Mas, MAS1, The Angiotensin-(1-7) Mas receptor is the recently identified receptor of the biologically active heptapeptide angiotensin-(1-7).¹ Angiotensin (Ang)-(1-7) is a metabolite of the well known peptide hormone Angiotensin (Ang) II, a key component of the renin-angiotensin system (RAS) that has a central role in cardiovascular homeostasis. Considerably interest in Ang-(1-7) and its receptor aroused in the last few years since it became apparent that it can counterbalance most of Ang II effects. Thus Ang-(1-7) has vasodilator and hypotensive effects as well as antiarrhythmic and cardioprotective roles.^{2, 3} The Ang-(1-7) Mas receptor belongs to the 7-transmembrane domain, G protein-coupled receptor (GPCR) superfamily and was originally described as a protooncogene. Signaling via the Ang-(1-7) Mas receptor is still poorly elucidated however, evidence indicates that the receptor is coupled to a Gq/11 protein that activates phospholipase C (PLC).^{2,3} The Ang-(1-7) Mas receptor is expressed in several organs including heart, kidney, blood vessels, testis and brain. Studies with Ang-(1-7) Mas receptor knockout mice have demonstrated the key role of this receptor in cardiovascular regulation as well as in the regulation of learning and memory.²

Alternative names: Angiotensin-(1-7) Mas Receptor, Proto-oncogene Mas, MAS1

Gene ID: 25153

NCBI Accession: [NM_000789](#)

UniProt: [P12526](#)

Pathways: [ACE Inhibitor Pathway](#), [Regulation of Carbohydrate Metabolic Process](#)

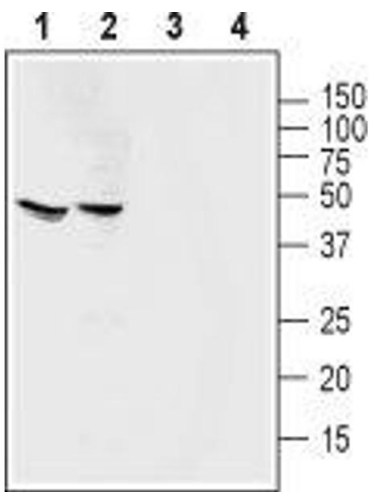
Application Details

Application Notes:	Antigen preadsorption control: 1 µg peptide per 1 µg antibody Application Dilutions Immunohistochemistry paraffin embedded sections ihc: N/A Application Dilutions Western blot wb: 1:600
Comment:	Negative Control: (ABIN7234720) Blocking Peptide: (ABIN7234720)
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	0.2 mL double distilled water (DDW).
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4
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. Storage after reconstitution: The reconstituted solution can be stored at 4°C 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



Western Blotting

Image 1. Western blot analysis of rat brain lysate (lanes 1 and 3) and mouse brain membranes (lanes 2 and 4): - 1,2. Guinea pig Anti-Angiotensin-(1-7) Mas Receptor Antibody (ABIN7042921, ABIN7045426 and ABIN7045427), (1:600).3,4. Guinea pig Anti-Angiotensin-(1-7) Mas Receptor Antibody, preincubated with Angiotensin-(1-7) Mas Receptor Blocking Peptide (#BLP-AR013).