MAS1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MAS1, Polyclonal Antibody
Full Product Name	MAS1, CT (MAS1, MAS, Proto-oncogene Mas) (MaxLight 650)
Product Gene Name	anti-MAS1 antibody
Product Synonym Names	MAS1; MAS; Proto-oncogene Mas
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human MAS1 at ~37kD
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	37,465 Da
OMIM	165180
3D Structure	ModBase 3D Structure for P04201
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids aa284-314 in the C-terminal region of human MAS1, UniProt Accession #NP_002368.1; P04201. Cellular Localization: Cell membrane; Multi-pass membrane protein
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-MAS1 antibody	Antibodies; Proteins
Applications Tested/Suitable for anti-MAS1 antibody	Western Blot (WB)
Application Notes for anti-MAS1 antibody	WB: 1:1000 Applications are based on unconjugated antibody.
Related Product Information for anti-MAS1 antibody	MBS6319097 is an antibody targeting MAS1. Also known as MAS1, CT (MAS1, MAS, Proto-oncogene Mas) (MaxLight 650). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-MAS1 antibody	1. Yang, J.K., et al. Diabetes Care 33(10):2271-2273 (2010). 2. Reis, A.B., et al. J. Mol. Histol. 41(1):75-80(2010). 3. Trynka, G., et al. Gut 58(8):1078-1083 (2009). 4. Iwai, M., et al. Hypertens. Res. 32(7):533-536(2009). 5. Vaz-Silva, J., et al. Reprod Sci 16(3):247-256 (2009).
Other Notes	Small volumes of anti-MAS1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MAS1. It may not necessarily be applicable to this product.

NCBI GI #	4505105
NCBI GeneID	4142
NCBI Accession #	NP_002368.1
UniProt Primary Accession #	P04201
UniProt Secondary Accession #	Q2TBC9; Q6FG47; E1P5B3
UniProt Related Accession #	P04201
GenBank Nucleotide #	NM_002377.2
NCBI Official Full Name	proto-oncogene Mas
NCBI Official Synonym Full Names	MAS1 proto-oncogene, G protein-coupled receptor
NCBI Official Symbol	MAS1
NCBI Official Synonym Symbols	MAS; MGRA
UniProt Protein Name	Proto-oncogene Mas
Protein Family	Agropine synthesis reductase
UniProt Gene Name	MAS1
UniProt Synonym Gene Names	MAS
UniProt Entry Name	MAS_HUMAN
NCBI Protein Information	proto-oncogene Mas; MAS1 oncogene; Mas-related G protein-coupled receptor A
NCBI Summary for MAS1	This gene encodes a class I seven-transmembrane G-protein-coupled receptor. The encoded protein is a receptor for angiotensin-(1-7) and preferentially couples to the Gq protein, activating the phospholipase C signaling pathway. The encoded protein may play a role in multiple processes including hypotension, smooth muscle relaxation and cardioprotection by mediating the effects of angiotensin-(1-7). [provided by RefSeq, May 2012]
UniProt Comments for MAS1	MAS1: Receptor for angiotensin 1-7. Acts specifically as a functional antagonist of AGTR1 (angiotensin-2 type 1 receptor), although it up-regulates AGTR1 receptor levels. Positive regulation of AGTR1 levels occurs through activation of the G-proteins GNA11 and GNAQ, and stimulation of the protein kinase C signaling cascade. The antagonist effect on AGTR1 function is probably due to AGTR1 being physically altered by MAS1. The MAS oncogene has a weak focus-inducing activity in transfected NIH 3T3 cells. Belongs to the G-protein coupled receptor 1 family. Protein type: Oncoprotein; GPCR, family 1; Membrane protein, multi-pass; Membrane protein, integral; Receptor, GPCR Chromosomal Location of Human Ortholog: 6q25.3-q26 Cellular Component: cell surface; integral to plasma membrane; plasma membrane Molecular Function: G-protein coupled receptor activity; angiotensin type II receptor activity; peptide hormone binding; peptide binding; angiotensin receptor activity Biological Process: response to drug; anatomical structure morphogenesis; male gonad development; hippocampus development; activation of NF-kappaB-inducing kinase; cell proliferation; G-protein coupled receptor protein signaling pathway; negative regulation of protein amino acid phosphorylation; regulation of inflammatory response; positive regulation of cell proliferation; spermatogenesis; response to activity; positive regulation of DNA replication
Research Articles on MAS1	**1.** Data suggest that angiotensin converting enzyme 2/angiotensin II-(1-7)/MAS1 axis regulates leukocyte recruitment/activation, cell proliferation, and inflammation/fibrosis; main topic here is kidney/inflammatory renal disease. [REVIEW]

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