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MAS1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14230b

Product Information

Application	WB, E
Primary Accession	P04201
Other Accession	NP_002368.1
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB34240
Calculated MW	37465
Antigen Region	285-314

Additional Information

Gene ID	4142
Other Names	Proto-oncogene Mas, MAS1, MAS
Target/Specificity	This MAS1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 285-314 amino acids from the C-terminal region of human MAS1.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	MAS1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MAS1
Synonyms	MAS
Function	G protein-coupled receptor that plays key roles in the renin- angiotensin

system (RAS) specifically in the protective, counter- regulatory arm of the RAS (PubMed:25967876). Receptor mainly stimulated by angiotensin 1-7, which is a bioactive metabolite of the angiotensin produced by ACE2 (PubMed:17984366). Activation promotes nitric oxide via PI3K/Akt-eNOS pathway (PubMed:17984366). Modulates also the MAPK, ERK1/2, and NF-kappa-B signaling (PubMed:25967876). Positive regulation of AGTR1 levels occurs through activation of the G proteins GNA11 and GNAQ, and stimulation of the protein kinase C signaling cascade (PubMed:15809376, PubMed:16611642). The antagonist effect on AGTR1 function is probably due to AGTR1 being physically altered by MAS1 (PubMed:15809376, PubMed:16611642). Acts as functional receptor for CXCL17 and induces chemotactic movement (PubMed:41167449).

Cellular Location Cell membrane; Multi-pass membrane protein

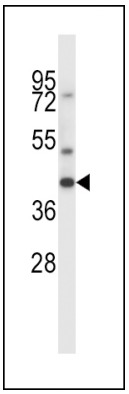
Background

The structure of the MAS1 product indicates that it belongs to the class of receptors that are coupled to GTP-binding proteins and share a conserved structural motif, which is described as a '7-transmembrane segment' following the prediction that these hydrophobic segments form membrane-spanning alpha-helices. The MAS1 protein may be a receptor that, when activated, modulates a critical component in a growth-regulating pathway to bring about oncogenic effects.

References

Yang, J.K., et al. Diabetes Care 33(10):2271-2273(2010)
Reis, A.B., et al. J. Mol. Histol. 41(1):75-80(2010)
Trynka, G., et al. Gut 58(8):1078-1083(2009)
Iwai, M., et al. Hypertens. Res. 32(7):533-536(2009)
Vaz-Silva, J., et al. Reprod Sci 16(3):247-256(2009)

Images



MAS1 Antibody (C-term) (Cat. #AP14230b) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the MAS1 antibody detected the MAS1 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.