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RAMP1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant RAMP1.
Catalog # AT3558a

Product Information

Application	E
Primary Accession	O60894
Other Accession	NM_005855
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2b Kappa
Clone Names	1F1
Calculated MW	16988

Additional Information

Gene ID	10267
Other Names	Receptor activity-modifying protein 1, Calcitonin-receptor-like receptor activity-modifying protein 1, CRLR activity-modifying protein 1, RAMP1
Target/Specificity	RAMP1 (NP_005846, 27 a.a. ~ 117 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	RAMP1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

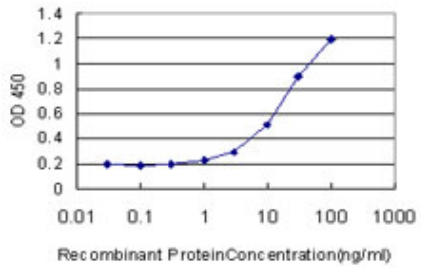
Background

The protein encoded by this gene is a member of the RAMP family of single-transmembrane-domain proteins, called receptor (calcitonin) activity modifying proteins (RAMPs). RAMPs are type I transmembrane proteins with an extracellular N terminus and a cytoplasmic C terminus. RAMPs are required to transport calcitonin-receptor-like receptor (CRLR) to the plasma membrane. CRLR, a receptor with seven transmembrane domains, can function as either a calcitonin-gene-related peptide (CGRP) receptor or an adrenomedullin receptor, depending on which members of the RAMP family are expressed. In the presence of this (RAMP1) protein, CRLR functions as a CGRP receptor. The RAMP1 protein is involved in the terminal glycosylation, maturation, and presentation of the CGRP receptor to the cell surface.

References

Mapping the CGRP receptor ligand binding domain: tryptophan-84 of RAMP1 is critical for agonist and antagonist binding. Moore EL, et al. Biochem Biophys Res Commun, 2010 Mar 26. PMID 20188075.Receptor activity-modifying protein 1 increases baroreflex sensitivity and attenuates Angiotensin-induced hypertension. Sabharwal R, et al. Hypertension, 2010 Mar. PMID 20100989.Haplotype-based case-control study of receptor (calcitonin) activity-modifying protein-1 gene in cerebral infarction. Nakazato T, et al. J Hum Hypertens, 2010 May. PMID 19710695.Crystal structure of the human receptor activity-modifying protein 1 extracellular domain. Kusano S, et al. Protein Sci, 2008 Nov. PMID 18725456.Identification of N-terminal receptor activity-modifying protein residues important for calcitonin gene-related peptide, adrenomedullin, and amylin receptor function. Qi T, et al. Mol Pharmacol, 2008 Oct. PMID 18593822.

Images



Detection limit for recombinant GST tagged RAMP1 is approximately 1ng/ml as a capture antibody.

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