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RAMP1 Antibody (monoclonal) (M01)

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

Specification

RAMP1 Antibody (monoclonal) (M01) - Product Information

Application	**E**
Primary Accession	O60894
Other Accession	NM_005855
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2b Kappa**
Calculated MW	**16988**

RAMP1 Antibody (monoclonal) (M01) - 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.

RAMP1 Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot

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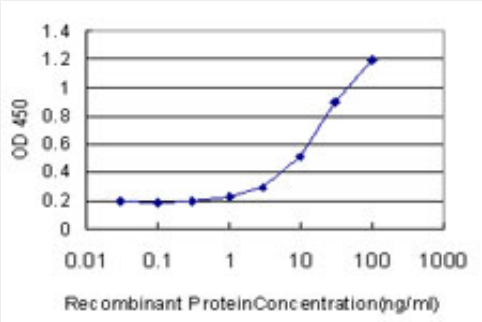
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

RAMP1 Antibody (monoclonal) (M01) - Images



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

RAMP1 Antibody (monoclonal) (M01) - 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.

RAMP1 Antibody (monoclonal) (M01) - 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.