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RAMP3 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP16029b

Specification

RAMP3 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession O60896

RAMP3 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 10268

Other Names
Receptor activity-modifying protein 3, Calcitonin-receptor-like receptor activity-modifying protein 3, CRLR activity-modifying protein 3, RAMP3

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

RAMP3 Antibody (C-term) Blocking Peptide - Protein Information

Name RAMP3

Function
Plays a role in cardioprotection by reducing cardiac hypertrophy and perivascular fibrosis in a GPER1-dependent manner. Transports the calcitonin gene-related peptide type 1 receptor (CALCRL) and GPER1 to the plasma membrane. Acts as a receptor for adrenomedullin (AM) together with CALCRL.

Cellular Location
Cell membrane; Single-pass type I membrane protein Membrane; Single-pass type I membrane protein. Note=Moves from intracellular puncta to the plasma membrane in a RAMP3-dependent manner

Tissue Location
Strongly expressed in lung, breast, immune system and fetal tissues.

RAMP3 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

RAMP3 Antibody (C-term) Blocking Peptide - Images

RAMP3 Antibody (C-term) Blocking Peptide - Background

The protein encoded by this gene is a member of the RAMPfamily of single-transmembrane-domain proteins, called receptor(calcitonin) activity modifying proteins (RAMPs). RAMPs are type Itransmembrane proteins with an extracellular N terminus and acytoplasmic C terminus. RAMPs are required to transportcalcitonin-receptor-like receptor (CRLR) to the plasma membrane.CRLR, a receptor with seven transmembrane domains, can function aseither a calcitonin-gene-related peptide (CGRP) receptor or anadrenomedullin receptor, depending on which members of the RAMPfamily are expressed. In the presence of this (RAMP3) protein, CRLRfunctions as an adrenomedullin receptor.

RAMP3 Antibody (C-term) Blocking Peptide - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)Bailey, R.J., et al. Peptides 31(4):579-584(2010)Harikumar, K.G., et al. Biochemistry 48(49):11773-11785(2009)Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)Kuwasako, K., et al. Biochem. Biophys. Res. Commun. 377(1):109-113(2008)