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RAMP2 Rabbit pAb

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Catalog # AP54693

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	O60895
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	19608
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human RAMP2
Epitope Specificity	81-175/175
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell Membrane; Single-pass type I membrane protein
SIMILARITY	Belongs to the RAMP family.
SUBUNIT	Heterodimer of CALCRL and RAMP2
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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 (RAMP2) protein, CRLR functions as an adrenomedullin receptor. The RAMP2 protein is involved in core glycosylation and transportation of adrenomedullin receptor to the cell surface.

Additional Information

Gene ID	10266
Other Names	Receptor activity-modifying protein 2, Calcitonin-receptor-like receptor activity-modifying protein 2, CRLR activity-modifying protein 2, RAMP2 (HGNC:9844)
Target/Specificity	Strongly expressed in lung, breast, immune system and fetal tissues.
Dilution	WB=1:500-2000,IHC-P=1:50 - 1:200,IHC-F=1:50 - 1:200,IF=1:50 - 1:200,ELISA=1:5000-10000

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

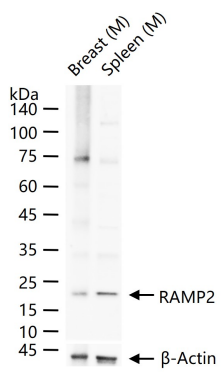
Protein Information

Name	RAMP2 (HGNC:9844)
Function	Accessory protein that interacts with and modulates the function of G-protein coupled receptors including calcitonin gene- related peptide type 1 receptor (CALCRL) and calcitonin receptor (CALCR) (PubMed:9620797). Required for the transport of CALCRL to the plasma membrane (PubMed:9620797). Together with CALCRL, form a receptor complex for adrenomedullin/ADM (PubMed:22102369, PubMed:32296767, PubMed:9620797). Together with CALCR, act as a receptor complex for calcitonin/CT/CALC (PubMed:35324283). Together with CALCR, also act as a receptor complex for amylin/IAPP (PubMed:35324283).
Cellular Location	Cell membrane; Single-pass type I membrane protein
Tissue Location	Strongly expressed in lung, breast, immune system and fetal tissues.

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 (RAMP2) protein, CRLR functions as an adrenomedullin receptor. The RAMP2 protein is involved in core glycosylation and transportation of adrenomedullin receptor to the cell surface.

Images



25 ug total protein per lane of various lysates (see on figure) probed with RAMP2 polyclonal antibody, unconjugated (AP54693) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.