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RAMP1 Rabbit mAb

Catalog # AP76000

Product Information

Application	WB
Primary Accession	O60894
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	16988

Additional Information

Gene ID	10267
Other Names	RAMP1
Dilution	WB~~1:1000-1:5000
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

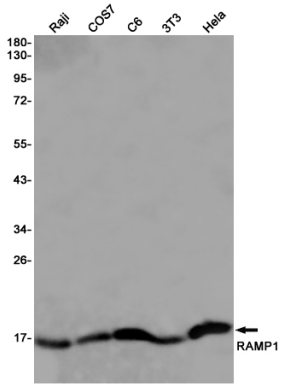
Protein Information

Name	RAMP1 (HGNC:9843)
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:33602864, PubMed:9620797, PubMed:35324283, PubMed:38603770). Required for the transport of CALCRL to the plasma membrane (PubMed:9620797). Together with CALCRL, form the receptor complex for the calcitonin gene-related peptides CGRP1/CALCA and CGRP2/CALCB (PubMed:33602864, PubMed:9620797). Together with CALCR, form the AMYR1 receptor complex for amylin/IAPP and CGRP1/CALCA (PubMed:35324283, PubMed:38603770).
Cellular Location	Cell membrane; Single-pass type I membrane protein
Tissue Location	Expressed in many tissues including the uterus, bladder, brain, pancreas and gastro-intestinal tract

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.

Images



Western blot analysis of RAMP1 in Raji, COS7, C6, 3T3, Hela lysates using RAMP1 antibody.

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