Datasheet for ABIN2856615

anti-RAMP2 antibody (C-Term)

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Overview

Quantity:	100 µL
Target:	RAMP2
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	Carrier-protein conjugated synthetic peptide encompassing a sequence within the C-terminus region of human RAMP2. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Characteristics:	Rabbit Polyclonal antibody to RAMP2 (receptor (G protein-coupled) activity modifying protein 2) RAMP2 antibody
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	RAMP2
Alternative Name:	receptor activity modifying protein 2 (RAMP2 Products)

Target Details

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. Cellular Localization: Membrane, Single-pass type I membrane protein
Molecular Weight:	20 kDa
Gene ID:	10266
UniProt:	O60895
Pathways:	cAMP Metabolic Process, Myometrial Relaxation and Contraction, Cell-Cell Junction Organization, Regulation of G-Protein Coupled Receptor Protein Signaling

Application Details

Application Notes:	WB: 1:500-1:3000. IHC-P: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	Validation: Orthogonal
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	0.1M Tris-Glycine (pH 7), 10 % Glycerol, 0.01 % Thimerosal
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C

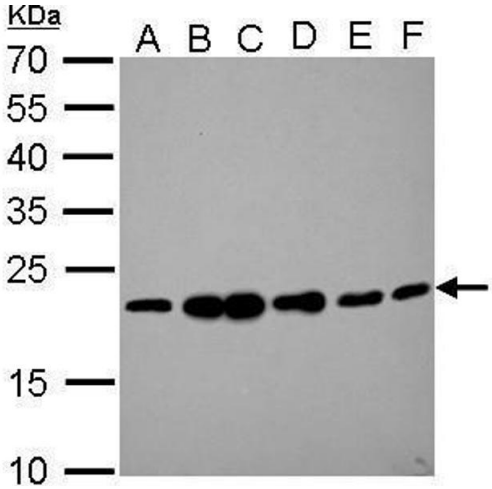
Handling

Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Publications

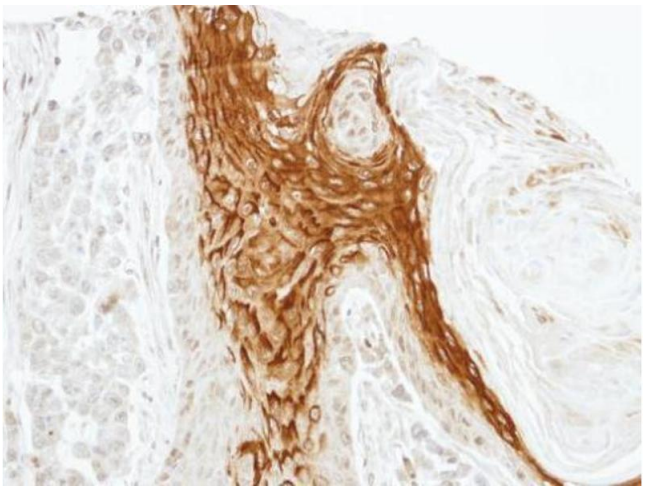
Product cited in:	Edvinsson, Grell, Warfvinge: "Expression of the CGRP Family of Neuropeptides and their Receptors in the Trigeminal Ganglion." in: **Journal of molecular neuroscience : MN**, Vol. 70, Issue 6, pp. 930-944, (2020) (PubMed). Blom, Giove, Pong, Blute, Eldred: "Evidence for a functional adrenomedullin signaling pathway in the mouse retina." in: **Molecular vision**, Vol. 18, pp. 1339-53, (2012) (PubMed).

Images



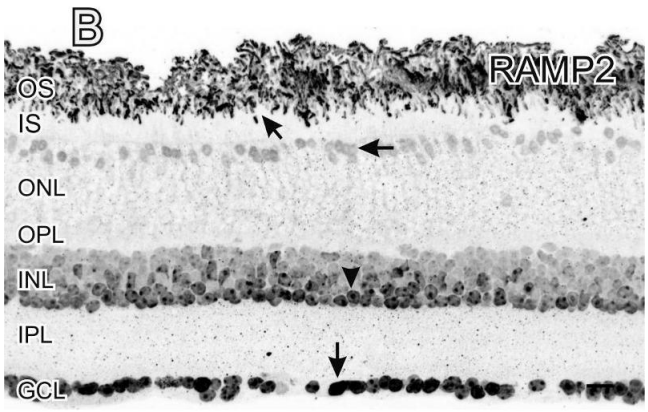
Western Blotting

Image 1. WB Image RAMP2 antibody detects RAMP2 protein by Western blot analysis. A. 30 µg Jurkat whole cell lysate/extract B. 30 µg Raji whole cell lysate/extract C. 30 µg K562 whole cell lysate/extract D. 30 µg THP-1 whole cell lysate/extract E. 30 µg HL-60 whole cell lysate/extract F. 30 µg NCI-H929 whole cell lysate/extract 12 % SDS-PAGE RAMP2 antibody , dilution: 1:1000



Immunohistochemistry

Image 2. IHC-P Image Immunohistochemical analysis of paraffin-embedded SG xenograft, using RAMP2, antibody at 1:100 dilution.



Immunocytochemistry

Image 3. Immunocytochemical localization of the adrenomedullin (ADM) receptor calcitonin receptor like receptor (CRLR) and receptor activity modifying protein (RAMP2). A: The ADM receptor CRLR-like immunoreactivity (LI) was localized near the outer segments of photoreceptors (diagonal arrow), in faint somata in the outer nuclear layer (ONL, horizontal arrow), in puncta in the outer plexiform layer (OPL, asterisk), in select cell somata in the inner nuclear layer (INL, arrowhead), in delicate puncta in the inner plexiform layer (IPL), and in numerous somata in the ganglion cell layer (GCL, vertical arrow). B: RAMP2-LI was localized near the photoreceptor outer segments (diagonal arrow), in somata in the ONL (horizontal arrow), and in somata in the INL (arrowhead) and GCL (vertical arrow). Scale bars=20 µm. C: western blot of mouse retinal homogenate probed with the same CRLR and RAMP2 antisera used for immunocytochemistry. Both antisera recognized single proteins with the correct molecular weights. - figure provided by CiteAb. Source: PMID22690112