

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human RAMP1 in direct ELISAs and Western blots. In direct ELISAs, approximately 20% cross-reactivity with recombinant mouse RAMP1 is observed and less than 1% cross-reactivity with recombinant human (rh) RAMP2 and rhRAMP3 is observed
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human RAMP1 Cys27-Ser117 Accession # O60894
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

RAMP1 (Receptor Activity Modifying Protein 1) is a 14-18 kDa member of the RAMP family of proteins. Variability in MW is due to the absence, or presence, of intramolecular disulfide bonds that form in the ER and Golgi. It is expressed on/in neurons, vascular endothelial cells, visceral and vascular smooth muscle cells, mammary epithelium, osteoblasts and cardiomyocytes. RAMP1 interacts with CRLR/CLR to form an 84 kDa noncovalent receptor complex for CGRP and AM, and with CTR to form a 76 kDa receptor complex for amylin. Mature human RAMP1 is a 122 amino acid (aa) nonglycosylated type I transmembrane protein that contains a 91 aa extracellular domain (ECD) (aa 27-117) plus a ten aa cytoplasmic tail. In the ECD, residues 78-90 bind AM, while residues 91-103 bind CGRP. In the absence of CRLR and CTR, RAMP1 will form 30-32 kDa disulfide-linked homodimers in the ER/Golgi. Over aa 27-117, human RAMP1 shares 65% aa identity with mouse RAMP1.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc., and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.