

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 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 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

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