

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human RAMP2 in direct ELISAs and Western blots. In direct ELISAs, approximately 50% cross-reactivity with recombinant mouse RAMP2 is observed and less than 1% cross-reactivity with recombinant human (rh) RAMP1 and rhRAMP3.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human RAMP2 Gln43-Val145 Accession # O60895
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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.

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

Human RAMP2 (receptor activity modifying protein 2) is a 17 kDa member of the RAMP family of proteins. It is expressed on cardiomyocytes, vascular smooth muscle cells and endothelium, and interacts with CRLR to form a receptor complex for adrenomedullin (AM). AM induces vasodilation on AM1 receptor expressing cells. Mature human RAMP2 is a 133 amino acid (aa) type I transmembrane glycoprotein that contains a 103 aa extracellular domain (ECD) (aa 43-145) and a nine aa cytoplasmic region. Although the ECD contains no typical structural motifs, aa 86-92 are critical for AM binding. There is one potential splice variant that shows a five aa insertion after Glu54. Over aa 43-145, human RAMP2 shares 61% aa identity with mouse RAMP2. Members of RAMP family of proteins are known to form complexes with apparent molecular weight of 25 kDa to 50 kDa that are resistant to denaturing and reducing agents.

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.