Human RAMP2 Alexa Fluor® 405-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF6427V
100 µg

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	*E. coli*-derived recombinant human RAMP2 Gln43-Val145 Accession # O60895
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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.

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