

# Product Information

## MemDX™ Membrane Protein Human RAMP1 (Receptor activity modifying protein 1) for Antibody Discovery

Cat. No.: **MP1074X**

This product is for research use only and is not intended for diagnostic use.

This product is a 42.02 kDa Human RAMP1 membrane protein expressed in *In vitro* wheat germ expression system. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

### Product Specifications

#### Host Species

Human

#### Target Protein

RAMP1

#### Protein Length

Full-length

#### Molecular Weight

42.02 kDa

#### TMD

1

#### Sequence

MARALCRLPRRGLWLLLAHHLFMTTACQEANYGALLRELCLTQFQVDMEAVGETLWCDWGRTIRSYRELADCTWHMAEKLGCFW

### Product Description

#### Application

Enzyme-linked Immunoabsorbent Assay, Western Blot (Recombinant protein), Antibody Production, Protein Array

#### Expression Systems

*In vitro* wheat germ expression system

#### Tag

GST-tag at N-terminal

#### Form

Liquid

#### Purification

Glutathione Sepharose 4 Fast Flow

**Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0

**Storage**

Store at +4°C for up to one week or several months at -80°C

**Target****Target Protein**

RAMP1

**Full Name**

Receptor activity modifying protein 1

**Introduction**

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 (RAMP1) protein, CRLR functions as a CGRP receptor. The RAMP1 protein is involved in the terminal glycosylation, maturation, and presentation of the CGRP receptor to the cell surface. Alternative splicing results in multiple transcript variants encoding different isoforms.

**Alternative Names**

receptor activity-modifying protein 1; CRLR activity-modifying protein 1; calcitonin receptor-like receptor activity modifying protein 1; receptor (G protein-coupled) activity modifying protein 1; receptor (calcitonin) activity modifying protein 1

**Gene ID**

[10267](#)

**UniProt ID**

[O60894](#)