

## Product datasheet for **CF504410**

### **RAMP2 Mouse Monoclonal Antibody [Clone ID: OTI4E5]**

#### **Product data:**

|                                |  |
|--------------------------------|--|
| <b>Product Type:</b>           | Primary Antibodies   |
| <b>Clone Name:</b>             | OTI4E5   |
| <b>Applications:</b>           | FC, IHC, WB  |
| <b>Recommended Dilution:</b>   | WB 1:1000, IHC 1:150, FLOW 1:100   |
| <b>Reactivity:</b>             | Human  |
| <b>Host:</b>                   | Mouse  |
| <b>Isotype:</b>                | IgG1   |
| <b>Clonality:</b>              | Monoclonal   |
| <b>Immunogen:</b>              | Full length human recombinat protein of human RAMP2(NP_005845) produced in HEK293T cell.   |
| <b>Formulation:</b>            | Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)  |
| <b>Reconstitution Method:</b>  | For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific) |
| <b>Purification:</b>           | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)  |
| <b>Conjugation:</b>            | Unconjugated   |
| <b>Storage:</b>                | Store at -20°C as received.  |
| <b>Stability:</b>              | Stable for 12 months from date of receipt.   |
| <b>Predicted Protein Size:</b> | 15.8 kDa   |
| <b>Gene Name:</b>              | receptor activity modifying protein 2  |
| <b>Database Link:</b>          | <a href="#">NP_005845</a><br><a href="#">Entrez Gene 10266 Human</a><br><a href="#">O60895</a>   |



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**Background:**

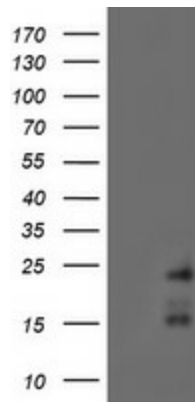
The protein encoded by this gene is a member of the RAMP family of single-transmembrane-domain proteins, called receptor (calcitonin) activity modifying proteins (RAMPs). RAMPs are type I transmembrane proteins with an extracellular N terminus and a cytoplasmic C terminus. RAMPs are required to transport 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 (RAMP2) protein, CRLR functions as an adrenomedullin receptor. The RAMP2 protein is involved in core glycosylation and transportation of adrenomedullin receptor to the cell surface. [provided by RefSeq]

**Protein Families:**

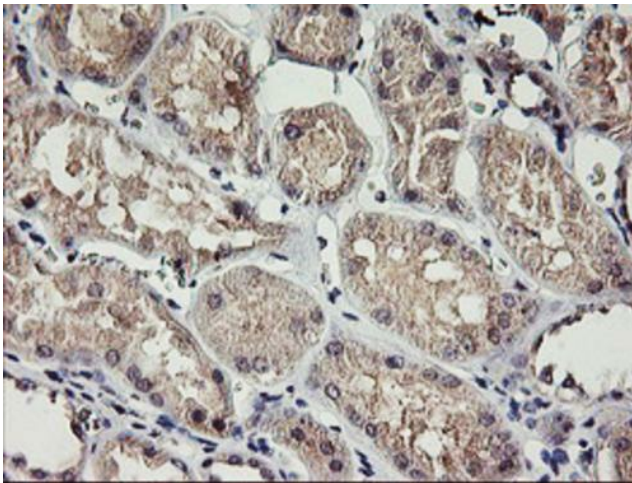
Druggable Genome, Transmembrane

**Protein Pathways:**

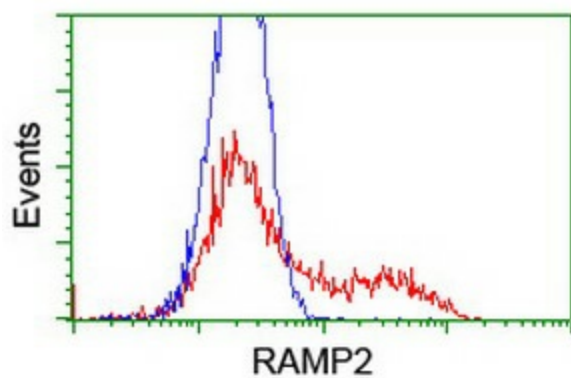
Vascular smooth muscle contraction

**Product images:**

HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY RAMP2 (Cat# [RC206531], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-RAMP2 (Cat# [TA504410]). Positive lysates [LY401774] (100ug) and [LC401774] (20ug) can be purchased separately from OriGene.



Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-RAMP2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504410])



HEK293T cells transfected with either [RC206531] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-RAMP2 antibody ([TA504410]), and then analyzed by flow cytometry.