

# RAMP1

## Polyclonal ANTIBODY

Catalog Number: 10327-1-AP

1 Publications

### Basic Information

|  |  |  |
|--|--|--|
| <b>Catalog Number:</b><br>10327-1-AP                         | <b>GenBank Accession Number:</b><br>BC000548                                   | <b>Recommended Dilutions:</b><br>WB 1:500-1:1000<br>IHC 1:50-1:500 |
| <b>Size:</b><br>82 µg/150 µl                                 | <b>GeneID (NCBI):</b><br>10267   |  |
| <b>Source:</b><br>Rabbit                                     | <b>Full Name:</b><br>receptor (G protein-coupled) activity modifying protein 1 |  |
| <b>Isotype:</b><br>IgG                                       | <b>Calculated MW:</b><br>17 kDa  |  |
| <b>Purification Method:</b><br>Antigen affinity purification | <b>Observed MW:</b><br>14 kDa  |  |
| <b>Immunogen Catalog Number:</b><br>AG0402                   |  |  |

### Applications

|  |  |
|--|--|
| <b>Tested Applications:</b><br>FC, IHC, WB, ELISA  | <b>Positive Controls:</b><br>WB : human heart tissue;<br>IHC : human small intestine tissue; |
| <b>Cited Applications:</b><br>IF   |  |
| <b>Species Specificity:</b><br>human   |  |
| <b>Cited Species:</b><br>rat   |  |
| <b>Note: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b> |  |

### Background Information

RAMP1 (receptor-activity-modifying protein) is a member of the RAMP family of single-transmembrane-domain proteins which consist of an N-terminal extracellular domain, a transmembrane region and a short intracellular C-terminal tail. RAMPs are required to transport calcitonin-receptor-like receptor (CRLR) to the plasma membrane. CRLR, a G protein-coupled receptor, 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. RAMP1 transports the CRLR to the plasma membrane and then remains associated with it to function as a terminally glycosylated CGRP receptor, while RAMP2 and RAMP3 transfer the CRLR to the cell surface to generate receptors that are preferentially selective for adrenomedullin. RAMP1 can form a homodimer which migrates at 30 kDa on SDS-PAGE. (PMD: 9620797; 16188935; 12051717 )

### Notable Publications

| Author            | Pubmed ID | Journal       | Application |
|-------------------|-----------|---------------|-------------|
| Vause Carrie V CV | 20138125  | Neurosci Lett | IF          |

### Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.1% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

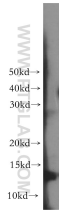
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

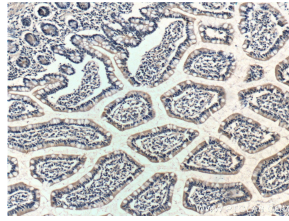
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

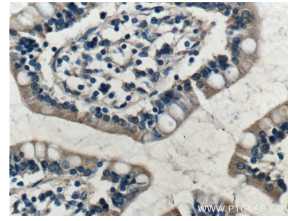
## Selected Validation Data



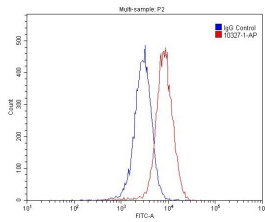
human heart tissue were subjected to SDS PAGE followed by western blot with 10327-1-AP(RAMP1 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours



Immunohistochemistry of paraffin-embedded human small intestine tissue slide using 10327-1-AP( RAMP1 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemistry of paraffin-embedded human small intestine tissue slide using 10327-1-AP( RAMP1 Antibody) at dilution of 1:200 (under 40x lens).



1X10<sup>6</sup> HepG2 cells were stained with .2ug RAMP1 antibody (10327-1-AP, red) and control antibody (blue). Fixed with 4% PFA blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.