

For Research Use Only

RAMP1 Polyclonal antibody

Catalog Number: 10327-1-AP

6 Publications



Basic Information

Catalog Number:

10327-1-AP

Size:

150ul, Concentration: 547 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0402

GenBank Accession Number:

BC000548

GeneID (NCBI):

10267

UNIPROT ID:

O60894

Full Name:

receptor (G protein-coupled) activity modifying protein 1

Calculated MW:

17 kDa

Observed MW:

14 kDa, 33-35 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:500-1:3000

IHC: 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Positive Controls:

WB: mouse heart tissue, human heart tissue, mouse stomach tissue, rat heart tissue

IHC: human small intestine tissue,

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

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 30-37 kDa on SDS-PAGE. (PMID: 9620797; 16188935; 12051717; PMID: 18384073)

Notable Publications

Author	Pubmed ID	Journal	Application
Dingding Liu	35350752	Front Pharmacol	WB,IHC
Ruimin Tian	35260079	J Headache Pain	IF
Renzi Zhang	40110637	Clin Sci (Lond)	WB,IHC

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

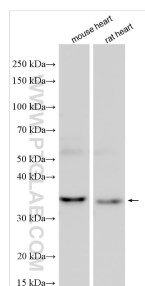
For technical support and original validation data for this product please contact:

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

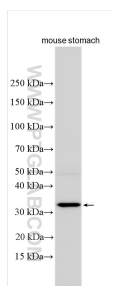
E: proteintech@ptglab.com
W: ptglab.com

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

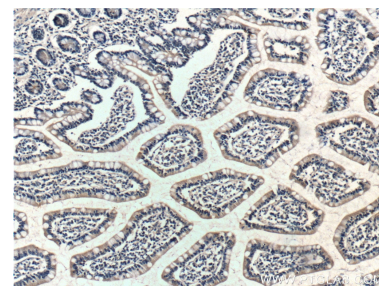
Selected Validation Data



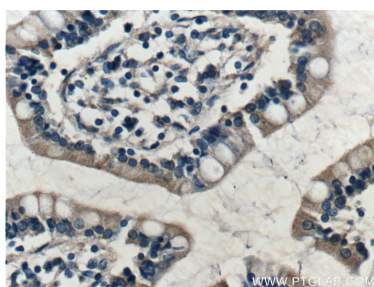
Various lysates were subjected to SDS PAGE followed by western blot with 10327-1-AP (RAMP1 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 10327-1-AP (RAMP1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



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



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