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Anti-RAMP3 Antibody

Catalog # AP61241

Product Information

Application	WB, IHC, IF/IC
Primary Accession	O60896
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	16518

Additional Information

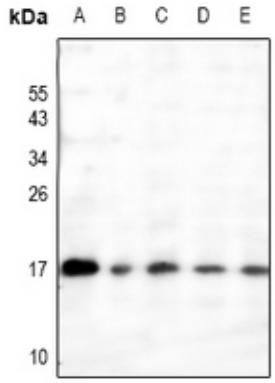
Gene ID	10268
Other Names	Receptor activity-modifying protein 3; Calcitonin-receptor-like receptor activity-modifying protein 3; CRLR activity-modifying protein 3
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human RAMP3. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

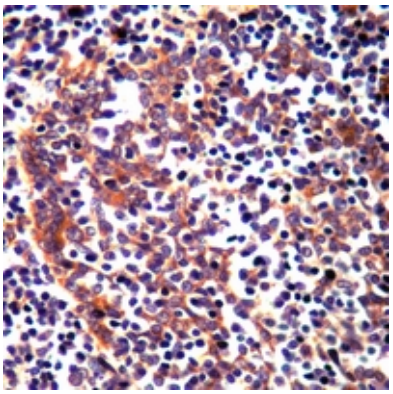
Name	RAMP3 (HGNC:9845)
Function	Accessory protein that interacts with and modulates the function of G protein-coupled receptors including calcitonin gene- related peptide type 1 receptor (CALCRL), calcitonin receptor (CALCR) and G protein-coupled estrogen receptor 1 (GPER1) (PubMed:23674134, PubMed:9620797). Required for the transport of CALCRL and GPER1 receptors to the plasma membrane (PubMed:23674134, PubMed:9620797). Plays a role in cardioprotection by reducing cardiac hypertrophy and perivascular fibrosis in a GPER1-dependent manner (PubMed:23674134). Together with CALCRL, form a receptor complex for adrenomedullin/ADM and intermedin/ADM2 (PubMed:32296767). Together with CALCR, act as a receptor complex for amylin/IAPP (PubMed:35324283).
Cellular Location	Cell membrane; Single-pass type I membrane protein. Membrane; Single-pass type I membrane protein. Note=Moves from intracellular puncta to the plasma membrane in a RAMP3-dependent manner

Tissue Location	Strongly expressed in lung, breast, immune system and fetal tissues.

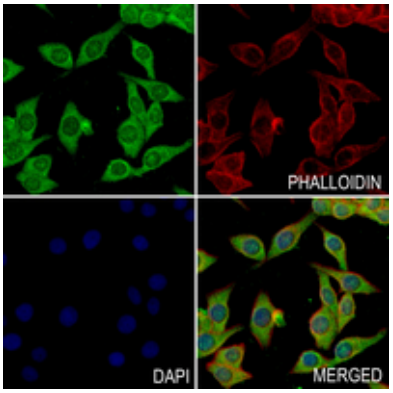
Images



Western blot analysis of RAMP3 expression in H1792 (A), MCF7 (B), Myla2059 (C), 3T3L1 (D), PMVEC (E) whole cell lysates. (Predicted band size: 16 kD; Observed band size: 17 kD)



Immunohistochemical analysis of RAMP3 staining in human tonsil cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of RAMP3 staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.