10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CALCRL Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17873c

Specification

CALCRL Antibody (Center) - Product Information

Application	**WB, IHC-P-Leica,E**
Primary Accession	Q16602
Other Accession	Q8WN93, NP_005786.1
Reactivity	**Human**
Predicted	**Pig**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**340-367**

CALCRL Antibody (Center) - Additional Information

Gene ID 10203

Other Names
Calcitonin gene-related peptide type 1 receptor, CGRP type 1 receptor, Calcitonin receptor-like receptor, CALCRL, CGRPR

Target/Specificity
This CALCRL antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 340-367 amino acids from the Central region of human CALCRL.

Dilution
WB~~1:2000
IHC-P-Leica~~1:500

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
CALCRL Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

CALCRL Antibody (Center) - Protein Information

Name CALCRL (HGNC:16709)

Synonyms CGRPR

Function G protein-coupled receptor which specificity is determined by its interaction with receptor-activity-modifying proteins (RAMPs) (PubMed:32296767, PubMed:33602864, PubMed:8626685). Together with RAMP1, form the receptor complex for calcitonin-gene-related peptides CALCA/CGRP1 and CALCB/CGRP2 (PubMed:33602864). Together with RAMP2 or RAMP3, function as receptor complexes for adrenomedullin (ADM and ADM2) (PubMed:32296767, PubMed:9620797). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of downstream effectors. Activates cAMP-dependent pathway (PubMed:32296767, PubMed:8626685).

Cellular Location
Cell membrane; Multi-pass membrane protein

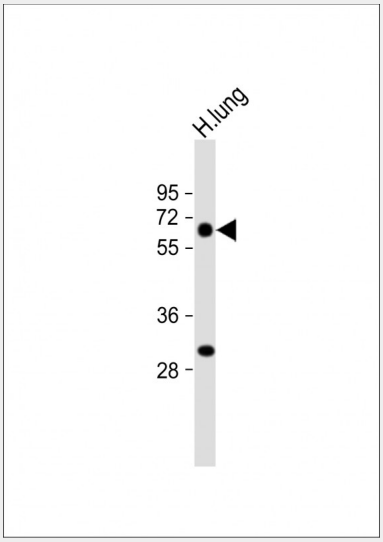
Tissue Location
Predominantly expressed in the lung and heart.

CALCRL Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CALCRL Antibody (Center) - Images



Anti-CALCRL Antibody (Center) at 1:1000 dilution + human lung lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 53 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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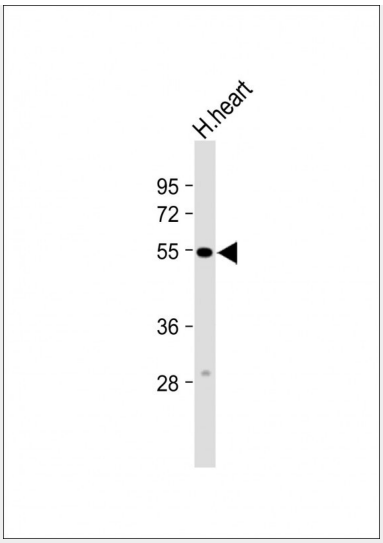
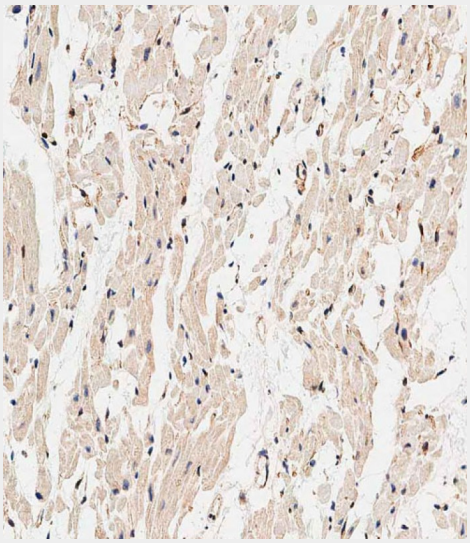


Anti-CALCRL Antibody (Center) at 1:2000 dilution + Human heart lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 53 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Immunohistochemical analysis of paraffin-embedded human heart tissue using AP17873c performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.

CALCRL Antibody (Center) - Background

Receptor for calcitonin-gene-related peptide (CGRP) together with RAMP1 and receptor for adrenomedullin together with RAMP2 or RAMP3 (By similarity). The activity of this receptor is mediated by G proteins which activate adenylyl cyclase.

CALCRL Antibody (Center) - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Kuwasako, K., et al. Biochem. Biophys. Res. Commun. 392(3):380-385(2010)
Chang, C.L., et al. J. Biol. Chem. 285(2):1075-1080(2010)
Barwell, J., et al. Peptides 31(1):170-176(2010)

Yokoyama, K., et al. Nephron Clin Pract 115 (4), C237-C243 (2010) :