

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

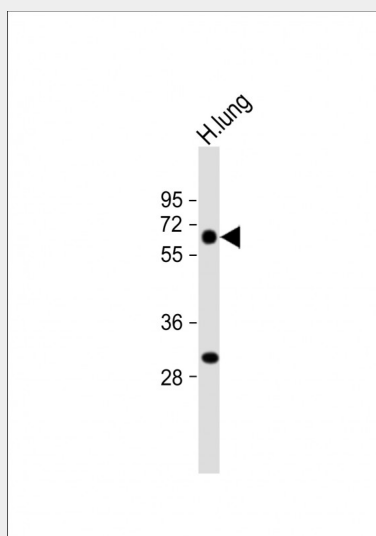
Predominantly expressed in the lung and heart.

CALCRL Antibody (Center) - Protocols

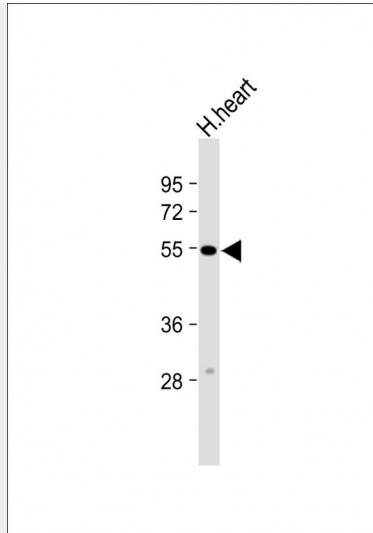
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

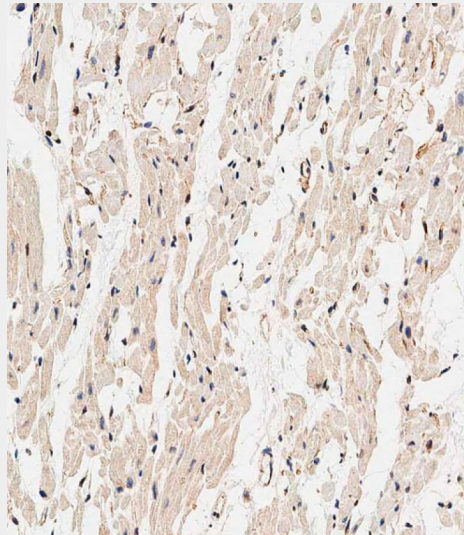
CALCRL Antibody (Center) - Images



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



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% NFDN/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) :