

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

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**CALCRL Antibody (Center) - Product Information**

Application	IHC-P-Leica, WB,E
Primary Accession	<a href="#">Q16602</a>
Other Accession	<a href="#">Q8WN93</a> , <a href="#">NP_005786.1</a>
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**

IHC-P-Leica~~1:500

WB~~1:2000

E~~Use at an assay dependent concentration.

**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

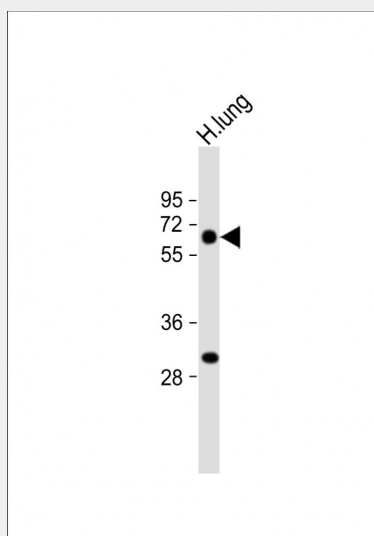
Predominantly expressed in the lung and heart.

## CALCRL Antibody (Center) - Protocols

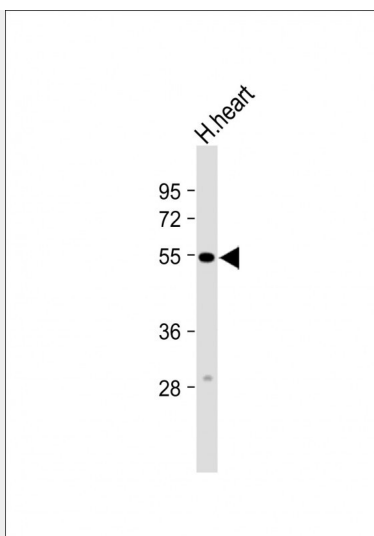
Provided below are standard protocols that you may find useful for product applications.

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

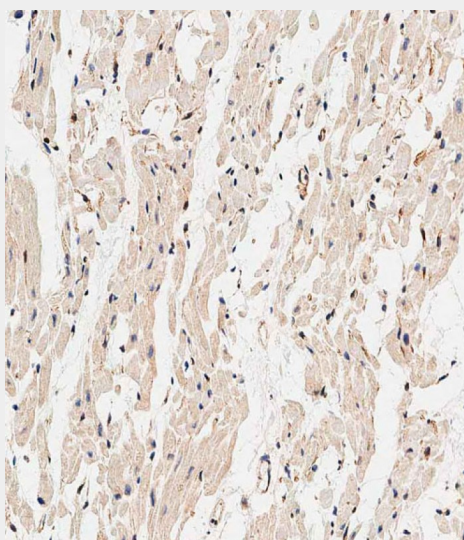
## CALCRL Antibody (Center) - Images



Anti-CALCRL Antibody (Center) at 1:1000 dilution + human lung lysate Lysates/proteins at 20 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.



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) :