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# CALCRL Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17873c

## Product Information

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| **Application** | IHC-P-Leica, WB, E |
| **Primary Accession** | Q16602 |
| **Other Accession** | Q8WN93, NP_005786.1 |
| **Reactivity** | Human, Rat, Mouse |
| **Predicted** | Pig, Bovine, Rabbit |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB22070 |
| **Calculated MW** | 52979 |
| **Antigen Region** | 340-367 |

## Additional Information

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| **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~~1:1000 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. |

## Protein Information

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| **Name** | CALCRL ( HGNC:16709) |
| **Synonyms** | CGRPR |

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| **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. |

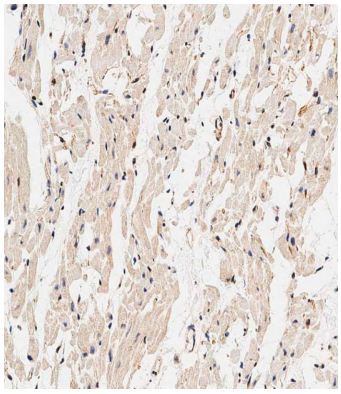
## Background

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.

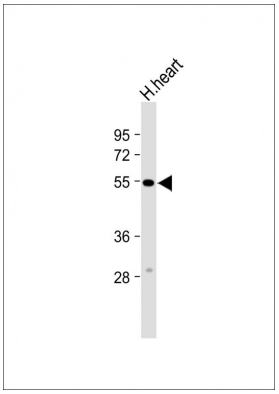
## References


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) :


## Images



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.




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.

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