

Datasheet for ABIN7237607

anti-CALCRL antibody (Extracellular) (FITC)



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Overview

Quantity:	15 µL
Target:	CALCRL
Binding Specificity:	AA 127-140, Extracellular
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CALCRL antibody is conjugated to FITC
Application:	Live Cell Imaging (LCI), Flow Cytometry (FACS)

Product Details

Purpose:	A Rabbit Polyclonal Antibody to CRLR/CALCRL (extracellular) conjugated to the fluorescent dye FITC
Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: CNVNTHEKVKTALN, corresponding to amino acid residues 127 - 140 of human Calcitonin Receptor-Like Receptor
Isotype:	IgG
Specificity:	Extracellular, N-terminus.
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Mouse, rat - 12 out of 14 amino acid residues identical
Characteristics:	Extracellular, N-terminus

Product Details

Purification: Affinity purified on immobilized antigen.

Target Details

Target: CALCRL

Alternative Name: CALCRL ([CALCRL Products](#))

Background: Calcitonin Receptor-Like Receptor, Calcitonin Gene-Related Peptide Type 1 Receptor, CRL, CGRPR, Calcitonin Receptor-Like Receptor 1 (CRLR or CGRPR) is a G protein-coupled receptor that binds the peptide hormone calcitonin and is involved in maintenance of calcium homeostasis, particularly with respect to bone formation and metabolism¹. When engaged with its substrate, calcitonin gene related peptide (CGRP), CGRPR activates cAMP-dependent pKA and PI3 kinase, which eventually leads to complex inhibitory as well as facilitator actions on Neuronal Nicotinic Acetylcholine Receptor¹. CGRP receptor is a heterodimer composed of two proteins: a 7-transmembrane domain type 2 G-protein coupled receptor called calcitonin-receptor-like receptor (CRLR), and receptor-activity-modifying protein 1 (RAMP1), a single-membrane-pass protein. RAMP1 serves as a transporter for CRLR to the cell surface and its absence leads to failure of binding with CRLR². CGRP and CGRPR are ubiquitously expressed and their interaction is related to various diseases and health states such as migraines³ and Alzheimer's disease¹.

Alternative names: Calcitonin Receptor-Like Receptor, Calcitonin Gene-Related Peptide Type 1 Receptor, CRL, CGRPR

Gene ID: 10203

NCBI Accession: [NM_032513](#)

UniProt: [Q16602](#)

Pathways: [cAMP Metabolic Process](#)

Application Details

Application Notes: Antigen preadsorption control: 1 µg peptide per 1 µg antibody
Application Dilutions Immunohistochemistry paraffin embedded sections ihc: N/A
Application Dilutions Western blot wb: N/A

Comment: Negative Control: (ABIN7582044)
Blocking Peptide: (ABIN7234904)

Application Details

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstitute with double distilled water (DDW) to a concentration of 1.0 mg/mL.
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4, 1 % BSA with 0.05 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. Storage after reconstitution: The reconstituted solution can be stored at 4°C, protected from the light, for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).