Datasheet for ABIN7582012

anti-CALCRL antibody (Extracellular) (PE)

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Overview

Quantity:	50 µL
Target:	CALCRL
Binding Specificity:	AA 127-140, Extracellular
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CALCRL antibody is conjugated to PE
Application:	Live Cell Imaging (LCI), Flow Cytometry (FACS)

Product Details

Purpose:	A Rabbit Polyclonal Antibody to Calcitonin Receptor-Like Receptor conjugated to the fluorescent dye R-Phycoerythrin
Immunogen:	CNVNTHEKVKTALN, corresponding to amino acid residues 127 - 140 of human Calcitonin Receptor-Like Receptor
Sequence:	CNVNTHEKVK TALN
Isotype:	IgG
Specificity:	Extracellular, N-terminus.
Predicted Reactivity:	Mouse,rat - 12 out of 14 amino acid residues identical
Characteristics:	Anti-CRLR/CALCRL (extracellular) Antibody (ABIN7042979, ABIN7044198 and ABIN7044199) is a highly specific antibody directed against an extracellular epitope of the human protein. The

Product Details

	antibody can be used in western blot, immunohistochemistry and live cell flow cytometry applications. It has been designed to recognize CALCRL from human, mouse and rat samples. Anti-CRLR/CALCRL (extracellular)-PE Antibody (ABIN7042979, ABIN7044198 and ABIN7044199-PE) is directly conjugated to R-Phycoerythrin (R-PE) fluorophore. This conjugated antibody has been developed to be used in immunofluorescent applications such as direct flow cytometry and live cell imaging.
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.
Gene ID:	10203
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

Application Details

Comment:	Negative Control: (ABIN7582046) Blocking Peptide: (ABIN7234904)
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	15 µL or 50 µL double distilled water (DDW), depending on the sample size.
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).