

**DATASHEET**

**Calcitonin Receptor Rabbit Polyclonal Antibody**

CAT. NO. APA18851

**KEY FEATURES**

Target	Calcitonin Receptor	Source / Host	Rabbit
Reactivity	Human	Clonality	Polyclonal
Applications	WB, IF/ICC, FC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at-20°C

**BACKGROUND**

G protein-coupled receptor activated by ligand peptides amylin (IAPP), calcitonin (CT/CALCA) and calcitonin gene-related peptide type 1 (CGRP1/CALCA), calcitonin (CT/CALCA) and calcitonin gene-related peptide type 1 (CGRP1/CALCA). CALCR interacts with receptor-activity-modifying proteins RAMP1, 2 and 3 to form receptor complexes AMYR1, 2 and 3, respectively. IAPP, CT and CGRP1 activate CALCR and AMYRs with distinct modes of receptor activation resulting in specific phenotypes. 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.

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IF/ICC	1:10 - 1:50
FC	1:10 - 1:50

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

Description	Rabbit polyclonal antibody to Calcitonin Receptor
Specificity	Recognizes endogenous levels of Calcitonin Receptor protein.
Antibody Type	Primary antibody
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the C-terminal region of human Calcitonin Receptor. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 55 kD; Observed: 46 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	Calcitonin receptor; CT-R
Gene Symbol	CALCR
Entrez Gene	799(Human)
SwissProt	P30988(Human)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

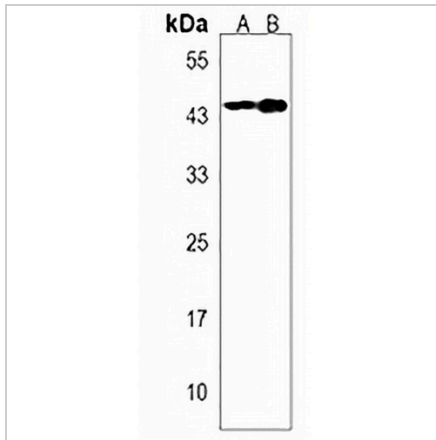
\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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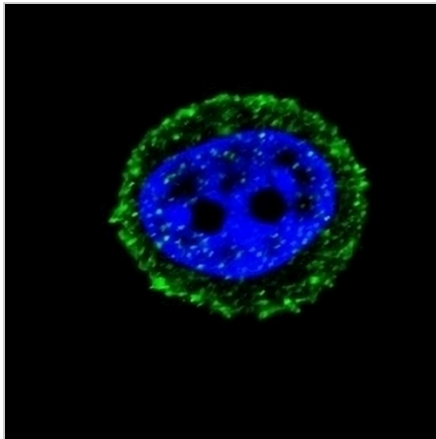
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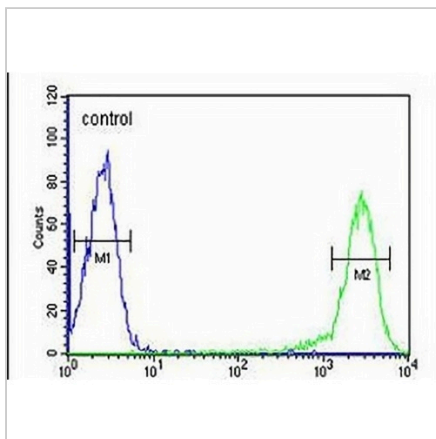
**DATA**



Western blot analysis of Calcitonin Receptor expression in MCF7 (A), A431 (B) whole cell lysates. (Predicted band size: 55 kD; Observed band size: 46 kD)



Immunofluorescent analysis of Anti-Calcitonin Receptor staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AREX® Fluor 488 - conjugated secondary antibody (green) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).



Flow cytometric analysis of HL60 cells using Anti-Calcitonin Receptor Antibody. The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody at 37 °C for 60 min. The secondary antibody Goat Anti-Rabbit IgG (H&L) - AREX® Fluor 488 was incubated at 37 °C for 40 min. Isotype control antibody (blue line) was used under the same condition.

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.