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Calcitonin receptor Rabbit pAb

Catalog # AP97204

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	P30988
Other Accession	P30988
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	55345
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Calcitonin receptor
Epitope Specificity	1-100/490
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the G-protein coupled receptor 2 family.
SUBUNIT	Interacts with GPRASP2.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a high affinity receptor for the peptide hormone calcitonin and belongs to a subfamily of seven transmembrane-spanning G protein-coupled receptors. The encoded protein is involved in maintaining calcium homeostasis and in regulating osteoclast-mediated bone resorption. Polymorphisms in this gene have been associated with variations in bone mineral density and onset of osteoporosis. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2009]

Additional Information

Gene ID	799
Other Names	CRT; CT-R; CTR; CTR1; Clr; CALCR_HUMAN; CALCR; CALCR_MOUSE; CALCR_RAT; C1A/C1B; calcitonin receptor
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	CALCR (HGNC:1440)
Function	G protein-coupled receptor activated by ligand peptides amylin (IAPP), calcitonin (CT/CALCA) and calcitonin gene-related peptide type 1 (CGRP1/CALCA) (PubMed:35324283, PubMed:38603770). CALCR interacts with receptor-activity-modifying proteins RAMP1, 2 and 3 to form receptor complexes AMYR1, 2 and 3, respectively (PubMed:35324283, PubMed:38603770). IAPP, CT and CGRP1 activate CALCR and AMYRs with distinct modes of receptor activation resulting in specific phenotypes (PubMed:35324283, PubMed:38603770). 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:35324283, PubMed:7476993).
Cellular Location	Cell membrane; Multi-pass membrane protein

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