

Calcitonin receptor Rabbit pAb

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Catalog # AP52190

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q60755
Reactivity	Rat
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	62469
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from mouse Calcitonin receptor
Epitope Specificity	31-120/516
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell membrane; Multi-pass membrane protein.
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	12311
Other Names	Calcitonin receptor, CT-R, Calcr {ECO:0000312 MGI:MGI:101950}
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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 {ECO:0000312 MGI:MGI:101950}
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Function	G protein-coupled receptor activated by ligand peptides amylin (IAPP), 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.
Cellular Location	Cell membrane {ECO:0000250 UniProtKB:P30988}; Multi-pass membrane protein {ECO:0000250 UniProtKB:P30988}

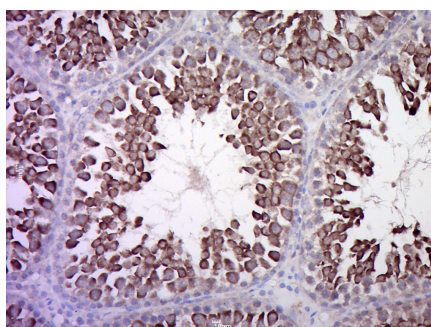
Background

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References

Albrandt K.G.,et al.FEBS Lett. 325:225-232(1993).
Sexton P.M.,et al.Mol. Endocrinol. 7:815-821(1993).

Images



Paraformaldehyde-fixed, paraffin embedded (Rat testis); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CALCR) Polyclonal Antibody, Unconjugated (AP52190) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

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