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PTH2R Rabbit pAb

Catalog # AP97867

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	P49190
Other Accession	P49190
Predicted	Rat, Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	62236
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PTH2R
Epitope Specificity	101-200/550
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 (via N-terminal extracellular domain) with PTHLH and PTH. Homodimer in the absence of bound ligand. Peptide hormone binding leads to dissociation of the homodimer. Interacts (via C-terminus) with the heterodimer formed by GNG2 and GNB1.
DISEASE	The disease is caused by mutations affecting the gene represented in this entry. Disease description:Rare autosomal dominant disorder characterized by a short-limbed dwarfism associated with hypercalcemia and normal or low serum concentrations of the two parathyroid hormones.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The protein encoded by this gene is a member of the G-protein coupled receptor 2 family. This protein is a receptor for parathyroid hormone (PTH). This receptor is more selective in ligand recognition and has a more specific tissue distribution compared to parathyroid hormone receptor 1 (PTHR1). It is activated only by PTH and not by parathyroid hormone-like hormone (PTHLH) and is particularly abundant in brain and pancreas. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2013]

Additional Information

Gene ID	5746
Other Names	PTHR2; PTH2R_HUMAN; PTH2R; PTH2 receptor; PTH2R_MOUSE; PTH2R_RAT; parathyroid hormone 2 receptor; parathyroid hormone receptor 2
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	PTH2R
Synonyms	PTHR2
Function	This is a specific receptor for parathyroid hormone. The activity of this receptor is mediated by G proteins which activate adenylyl cyclase. PTH2R may be responsible for PTH effects in a number of physiological systems. It may play a significant role in pancreatic function. PTH2R presence in neurons indicates that it may function as a neurotransmitter receptor (By similarity).
Cellular Location	Cell membrane; Multi-pass membrane protein.
Tissue Location	Expressed abundantly in brain and pancreas. Also expressed in the testis.

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