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Anti-Parathyroid Hormone Receptor 1 Antibody

Catalog # ABO11440

Product Information

Application	WB, IHC-P, ICC
Primary Accession	Q03431
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Parathyroid hormone/parathyroid hormone-related peptide receptor(PTH1R) detection. Tested with WB, IHC-P, ICC in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	5745
Other Names	Parathyroid hormone/parathyroid hormone-related peptide receptor, PTH/PTHrP type I receptor, PTH/PTHr receptor, Parathyroid hormone 1 receptor, PTH1 receptor, PTH1R, PTHR, PTHR1
Calculated MW	66361
Application Details	Immunocytochemistry , 0.5-1 □g/ml, Human, Mouse, Rat Immunohistochemistry(Paraffin-embedded Section), 0.5-1 □g/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5 □g/ml, Human, Mouse, Rat
Subcellular Localization	Cell membrane ; Multi-pass membrane protein .
Tissue Specificity	Expressed in most tissues. Most abundant in kidney, bone and liver.
Source	Eukaryota
Protein Name	Parathyroid hormone/parathyroid hormone-related peptide receptor
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Parathyroid Hormone Receptor 1(388-406aa KLRETNAGRCDTRQQYRKL), identical to the related mouse and rat sequences.
Purification	Immunogen affinity purified.

Cross Reactivity	No cross reactivity with other proteins
Storage	At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.

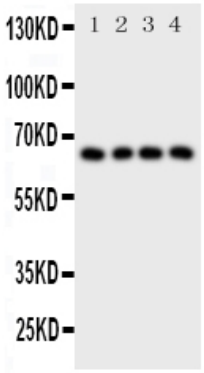
Protein Information

Name	PTH1R {ECO:0000303|PubMed:10913300, ECO:0000312|HGNC:HGNC:9608}
Function	G protein-coupled receptor for parathyroid hormone (PTH) and for parathyroid hormone-related peptide (PTHLH) (PubMed:10913300, PubMed:11773434, PubMed:18375760, PubMed:19674967, PubMed:27160269, PubMed:30975883, PubMed:35932760, PubMed:8397094). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of downstream effectors, such as adenylate cyclase (cAMP) (PubMed:30975883, PubMed:35932760). PTH1R is coupled to G(s) G alpha proteins and mediates activation of adenylate cyclase activity (PubMed:20172855, PubMed:30975883, PubMed:35932760). PTHLH dissociates from PTH1R more rapidly than PTH; as consequence, the cAMP response induced by PTHLH decays faster than the response induced by PTH (PubMed:35932760).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Expressed in most tissues. Most abundant in kidney, bone and liver.

Background

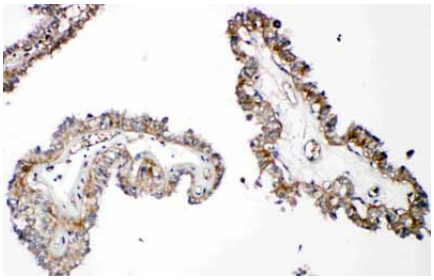
Parathyroid hormone/parathyroid hormone-related peptide receptor, also known as PTH1R, PTHR, is a protein that in humans is encoded by the PTH1R gene. PTHR is a member of a family of G protein-coupled receptors. PTHR gene was mapped to the vicinity of the 3p21.3-p21.2 boundary by PCR analysis of human/rodent somatic cell hybrid panels using oligonucleotide primers designed to amplify a portion of the gene from genomic DNA. This is a receptor for parathyroid hormone and for parathyroid hormone-related peptide. The activity of this receptor is mediated by G proteins which activate adenylyl cyclase and also a phosphatidylinositol-calcium second messenger system. PTH1R functions as a receptor for parathyroid hormone and for parathyroid hormone-related protein.

Images



Anti-Parathyroid Hormone Receptor 1 antibody, ABO11440, Western blottingAll lanes: Anti Parathyroid Hormone Receptor 1 (ABO11440) at 0.5ug/mlLane 1: SKOV Whole Cell Lysate at 40ugLane 2: U20S Whole Cell Lysate at 40ugLane 3: HELA Whole Cell Lysate at 40ugLane 4: SMMC Whole Cell Lysate at 40ugPredicted bind size: 66KDObserved bind size: 66KD

Anti-Parathyroid Hormone Receptor 1 antibody, ABO11440, IHC(P)IHC(P): Human Thyroid Cancer Tissue



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