

# Anti-Parathyroid Hormone Receptor 1 Antibody

Catalog # ABO11440

## Product Information

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

## Additional Information

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| <b>Gene ID</b>                  | 5745                                                                                                                                                                                                              |
| <b>Other Names</b>              | Parathyroid hormone/parathyroid hormone-related peptide receptor, PTH/PTHrP type I receptor, PTH/PTHr receptor, Parathyroid hormone 1 receptor, PTH1 receptor, PTH1R, PTHR, PTHR1                                 |
| <b>Calculated MW</b>            | 66361                                                                                                                                                                                                             |
| <b>Application Details</b>      | Immunocytochemistry , 0.5-1 $\mu$ g/ml, Human, Mouse, Rat<br>Immunohistochemistry(Paraffin-embedded Section), 0.5-1 $\mu$ g/ml, Human, Mouse, Rat, By Heat<br>Western blot, 0.1-0.5 $\mu$ g/ml, Human, Mouse, Rat |
| <b>Subcellular Localization</b> | Cell membrane ; Multi-pass membrane protein .                                                                                                                                                                     |
| <b>Tissue Specificity</b>       | Expressed in most tissues. Most abundant in kidney, bone and liver.                                                                                                                                               |
| <b>Source</b>                   | Eukaryota                                                                                                                                                                                                         |
| <b>Protein Name</b>             | Parathyroid hormone/parathyroid hormone-related peptide receptor                                                                                                                                                  |
| <b>Contents</b>                 | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> .                                                                                     |
| <b>Immunogen</b>                | A synthetic peptide corresponding to a sequence at the C-terminus of human Parathyroid Hormone Receptor 1(388-406aa KLRETNAGRC DTRQYRK L), identical to the related mouse and rat sequences.                      |
| <b>Purification</b>             | Immunogen affinity purified.                                                                                                                                                                                      |

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| <b>Cross Reactivity</b> | No cross reactivity with other proteins                                                                                                                                               |
| <b>Storage</b>          | 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. |

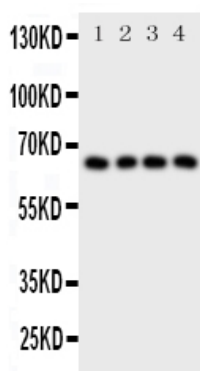
## Protein Information

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| <b>Name</b>              | PTH1R {ECO:0000303   PubMed:10913300, ECO:0000312   HGNC:HGNC:9608}                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Function</b>          | G protein-coupled receptor for parathyroid hormone (PTH) and for parathyroid hormone-related peptide (PTHrP) (PubMed: <a href="#">10913300</a> , PubMed: <a href="#">18375760</a> , PubMed: <a href="#">19674967</a> , PubMed: <a href="#">27160269</a> , PubMed: <a href="#">30975883</a> , PubMed: <a href="#">35932760</a> , PubMed: <a href="#">8397094</a> ). 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: <a href="#">30975883</a> , PubMed: <a href="#">35932760</a> ). PTH1R is coupled to G(s) G alpha proteins and mediates activation of adenylate cyclase activity (PubMed: <a href="#">20172855</a> , PubMed: <a href="#">30975883</a> , PubMed: <a href="#">35932760</a> ). PTHrP dissociates from PTH1R more rapidly than PTH; as consequence, the cAMP response induced by PTHrP decays faster than the response induced by PTH (PubMed: <a href="#">35932760</a> ). |
| <b>Cellular Location</b> | Cell membrane; Multi-pass membrane protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Tissue Location</b>   | Expressed in most tissues. Most abundant in kidney, bone and liver.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## Background

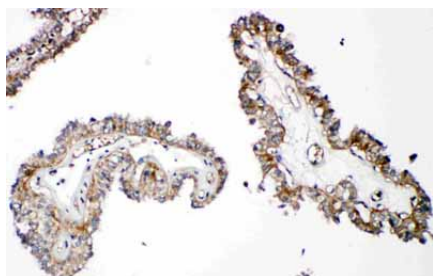
Parathyroid hormone/parathyroid hormone-related peptide receptor, also known as PTH1R, PTHR, is a protein that in humans is encoded by the PTH1R gene. PTHR is a member of a family of G protein-coupled receptors. PTHR gene was mapped to the vicinity of the 3p21.3-p21.2 boundary by PCR analysis of human/rodent 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: U2OS 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'.