

# PTH/PTHrP-R Polyclonal Antibody

Catalog # AP72081

## Product Information

Application	WB, IHC-P, IF
Primary Accession	<a href="#">Q03431</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	66361

## Additional Information

Gene ID	5745
Other Names	PTH1R; PTHR; PTHR1; Parathyroid hormone/parathyroid hormone-related peptide receptor; PTH/PTHrP type I receptor; PTH/PTHr receptor; Parathyroid hormone 1 receptor; PTH1 receptor
Dilution	WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications. IHC-P~~N/A IF~~1:50~200
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

## 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 (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 adenylyl 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 adenylyl 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> ).
Cellular Location	Cell membrane; Multi-pass membrane protein

**Tissue Location**

Expressed in most tissues. Most abundant in kidney, bone and liver.

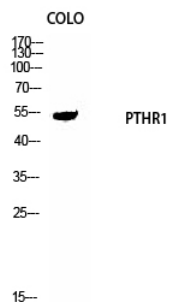
**Background**

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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.

**Images**

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Western Blot analysis of COLO cells using PTH/PTHrP-R Polyclonal Antibody diluted at 1 : 1000

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