

# Anti-PTHr1 Antibody

Rabbit polyclonal antibody to PTHR1

Catalog # AP60374

## Product Information

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

## Additional Information

Gene ID	5745
Other Names	PTHr; PTHR1; Parathyroid hormone/parathyroid hormone-related peptide receptor; PTH/PTHrP type I receptor; PTH/PTHr receptor; Parathyroid hormone 1 receptor; PTH1 receptor
Target/Specificity	Recognizes endogenous levels of PTHR1 protein.
Dilution	WB~~WB (1/500 - 1/1000), IHC (1/100 - 1/200), IF/IC (1/100 - 1/500) IF/IC~~N/A IHC~~WB (1/500 - 1/1000), IHC (1/100 - 1/200), IF/IC (1/100 - 1/500)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

## 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 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> ).

**Cellular Location**

Cell membrane; Multi-pass membrane protein

**Tissue Location**

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

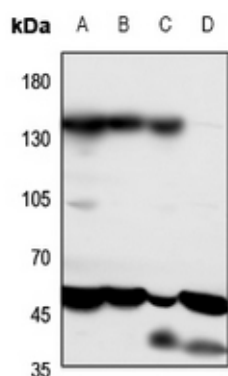
## Background

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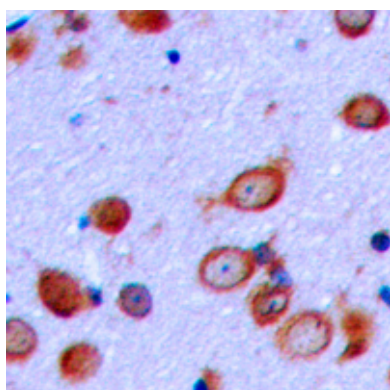
KLH-conjugated synthetic peptide encompassing a sequence within the center region of human PTHR1. The exact sequence is proprietary.

## Images

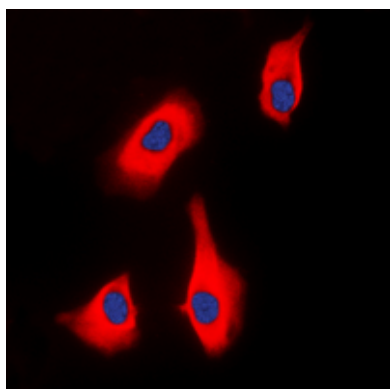
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Western blot analysis of PTHR1 expression in mouse lung (A), mouse kidney (B), rat lung (C), rat kidney (D) whole cell lysates.



Immunohistochemical analysis of PTHR1 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of PTHR1 staining in HEK293T cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

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