

**Anti-PTHR1 Antibody**  
**Rabbit polyclonal antibody to PTHR1**  
**Catalog # AP60374****Specification**

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**Anti-PTHR1 Antibody - Product Information**

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

**Anti-PTHR1 Antibody - 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), IH (1/100 - 1/200), IF/IC (1/100 - 1/500)

IF/IC~~N/A

IHC~~1:100~500

**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

**Anti-PTHR1 Antibody - 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="http://www.uniprot.org/citations/10913300" target="\_blank">10913300</a>, PubMed:<a href="http://www.uniprot.org/citations/18375760" target="\_blank">18375760</a>, PubMed:<a href="http://www.uniprot.org/citations/19674967" target="\_blank">19674967</a>, PubMed:<a href="http://www.uniprot.org/citations/27160269" target="\_blank">27160269</a>, PubMed:<a href="http://www.uniprot.org/citations/30975883" target="\_blank">30975883</a>, PubMed:<a href="http://www.uniprot.org/citations/35932760" target="\_blank">35932760</a>)

target="\_blank">35932760</a>, PubMed:<a href="http://www.uniprot.org/citations/8397094" target="\_blank">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="http://www.uniprot.org/citations/30975883" target="\_blank">30975883</a>, PubMed:<a href="http://www.uniprot.org/citations/35932760" target="\_blank">35932760</a>). PTH1R is coupled to G(s) G alpha proteins and mediates activation of adenylate cyclase activity (PubMed:<a href="http://www.uniprot.org/citations/20172855" target="\_blank">20172855</a>, PubMed:<a href="http://www.uniprot.org/citations/30975883" target="\_blank">30975883</a>, PubMed:<a href="http://www.uniprot.org/citations/35932760" target="\_blank">35932760</a>). 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:<a href="http://www.uniprot.org/citations/35932760" target="\_blank">35932760</a>).

### Cellular Location

Cell membrane; Multi-pass membrane protein

### Tissue Location

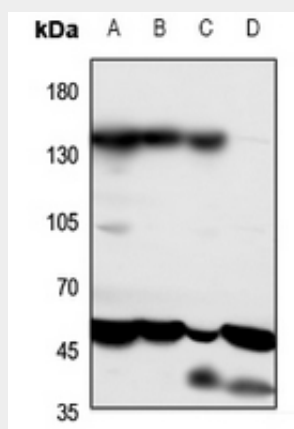
Expressed in most tissues. Most abundant in kidney, bone and liver.

## Anti-PTHR1 Antibody - Protocols

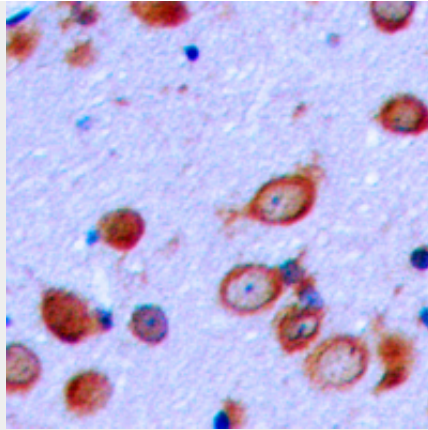
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

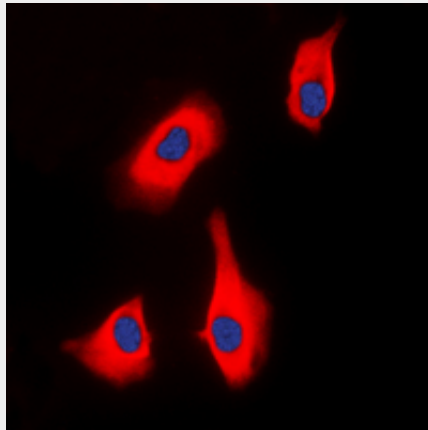
## Anti-PTHR1 Antibody - Images



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).

#### **Anti-PTHR1 Antibody - Background**

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