

PTHR / PTHR1 Antibody
Mouse Monoclonal Antibody
Catalog # ALS12187**Specification****PTHR / PTHR1 Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	Q03431
Reactivity	Human, Mouse, Monkey, Pig, Horse, Bovine, Dog
Host	Mouse
Clonality	Monoclonal
Calculated MW	66kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A

PTHR / PTHR1 Antibody - 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

Target/Specificity

Recognizes human PTH/PTHrP receptor, MW 80kD, and the receptor dimer, Mr 160kD. A faint nonspecific band at 110kD is also detected. This antibody does not detect the PTH2 receptor.

Reconstitution & Storage

Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

Precautions

PTHR / PTHR1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

PTHR / 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: 10913300, PubMed: 18375760, PubMed: 19674967, PubMed: 27160269, PubMed: 30975883, PubMed: 35932760, PubMed: 8397094)

target="_blank">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

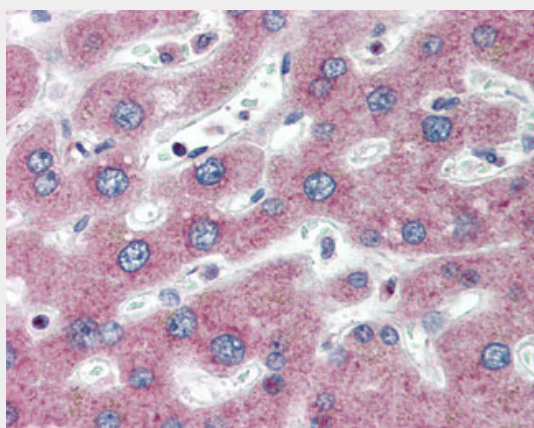
Expressed in most tissues. Most abundant in kidney, bone and liver.

PTHR / 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](#)

PTHR / PTHR1 Antibody - Images



Anti-PTH1R antibody IHC of human liver.

PTHR / PTHR1 Antibody - Background

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.

PTHR / PTHR1 Antibody - References

- Schipani E.,et al.Endocrinology 132:2157-2165(1993).
Schneider H.,et al.Eur. J. Pharmacol. 246:149-155(1993).
Schipani E.,et al.J. Clin. Endocrinol. Metab. 80:1611-1621(1995).
Levine M.A.,et al.Submitted (NOV-1994) to the EMBL/GenBank/DDBJ databases.
King M.M.,et al.Submitted (OCT-2003) to the EMBL/GenBank/DDBJ databases.