For Research Use Only

PTH1R Recombinant monoclonal antibody, PBS Only (Capture)

Catalog Number:87076-3-PBS

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
87076-3-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
EG6501

GenBank Accession Number:
NM_000316.2

GeneID (NCBI):
5745

UNIPROT ID:
Q03431

Full Name:
parathyroid hormone 1 receptor

Calculated MW:
66 kDa

Observed MW:
66 kDa and 90 kDa

Purification Method:
Protein A purification

CloneNo.:
252173F3

Applications

Tested Applications:
WB, Sandwich ELISA, Indirect ELISA

Species Specificity:
human, mouse

Product Information

87076-3-PBS targets PTH1R as part of a matched antibody pair:

MP02999-1: 87076-3-PBS capture and 87076-2-PBS detection (validated in Sandwich ELISA)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications.Antibody use should be optimized by the end user for each application and assay.

Background Information

PTH1R is a receptor for parathyroid hormone and parathyroid hormone-related peptide (PTHrP). PTH1R is a glycoprotein with seven transmembrane domains and it has an extracellular N-terminus region and an intracellular C-terminus region. The activity of PTH1R is mediated by G proteins which activate adenylyl cyclase. It has been reported that PTHrP and PTH1R are associated with the differentiation of bone and cartilage in the developing stages. The calculated molecular weight of PTH1R is 66 kDa, and PTH1R can form a 120 kDa dimer in the non-reducing condition. With glycosylation modification, the molecular weight of PTH1R will migrate to 90 kDa (PMID: 16783882).

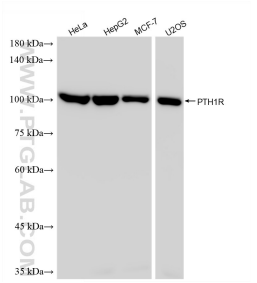
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

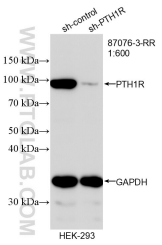
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

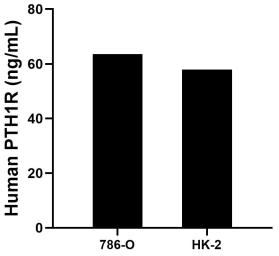
Selected Validation Data



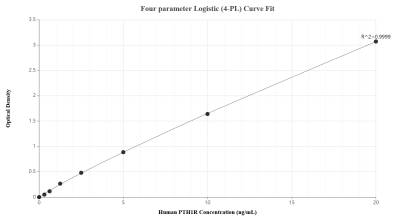
Various lysates were subjected to SDS PAGE followed by western blot with 87076-3-RR (PTH1R antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87076-3-PBS in a different storage buffer formulation.



WB result of PTH1R antibody (87076-3-RR; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-PTH1R transfected HEK-293 cells. This data was developed using the same antibody clone with 87076-3-PBS in a different storage buffer formulation.



The mean PTH1R concentration was determined to be 63.56 ng/mL in 786-O cell extract based on a 1.20 mg/mL extract load and 57.87 ng/mL in HK-2 cell extract based on a 1.20 mg/mL extract load.



Sandwich ELISA standard curve of MP02999-1, Human PTH1R Recombinant Matched Antibody Pair - PBS only. 87076-3-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Eg6501. 87076-2-PBS was HRP conjugated as the detection antibody. Range: 0.313-20 ng/mL.