



Biotinylated Anti-human PTH1 R Antibody

ORDERING INFORMATION

Catalog Number: BAF5709

Lot Number: CDBZ01

Size: 50 µg

Formulation: 0.2 µm filtered solution in PBS with BSA

Storage: -20° C

Reconstitution: sterile 0.1% BSA in TBS

Specificity: human PTH1 R extracellular domain

Immunogen: CHO cell-derived rhPTH1 R extracellular domain

Ig Type: sheep IgG

Application: Western blot

Background

PTH1 R (Parathyroid hormone receptor # 1; also PTH/PTHr receptor) is a predicted 66 - 68 kDa member of the G-protein coupled receptor family # 2. It is expressed on a variety of cell types, including hepatocytes, renal epithelium, smooth muscle cells, and osteoblasts plus chondrocytes. PTH1 R is a receptor for both PTH and PTHrP, and PTH binding promotes Ca⁺⁺-release from bone, mediated by osteoclast formation. Mature human PTH1 R is a 7-transmembrane glycoprotein 567 amino acids (aa) in length. It contains a long, ligand-binding N-terminal extracellular region (aa 27 - 188) and a 130 aa cytoplasmic C-terminal domain. Single aa changes such as Gly121Glu, Ala122Thr and Arg255His can impair PTH1 R signaling. Over aa 1 - 189, human PTH1 R shares 88% aa identity with mouse PTH1 R.

Preparation

Produced in sheep immunized with purified, CHO cell-derived, recombinant human PTH1 R extracellular domain (rhPTH1 R; aa 23 - 189; Accession # Q03431). Human PTH1 R specific IgG was purified by human PTH1 R affinity chromatography and then biotinylated.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) containing 50 µg of bovine serum albumin (BSA) per 1 µg of antibody.

Reconstitution

Reconstitute with sterile Tris-buffered saline pH 7.3 (20 mM Trizma base, 150 mM NaCl) containing 0.1% BSA. If 1 mL of buffer is used, the antibody concentration will be 50 µg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody has been selected for use as a detection antibody in human PTH1 R Western blots.

Application

Western blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human PTH1 R. The detection limit for rhPTH1 R is approximately 2 ng/lane under non-reducing and reducing conditions.

Optimal dilutions should be determined by each laboratory for each application.

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