

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human PTH1R/PTHR1 in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG ₁ Clone # 734630
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human PTH1R/PTHR1 Tyr23-Met189 Accession # Q03431
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

PTH1R (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. PTH1R is a receptor for both PTH and PTHrP, and PTH binding promotes Ca⁺⁺-release from bone, mediated by osteoclast formation. Mature human PTH1R 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 PTH1R signaling. Over aa 1-189, human PTH1R shares 88% aa identity with mouse PTH1R.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.