

DESCRIPTION

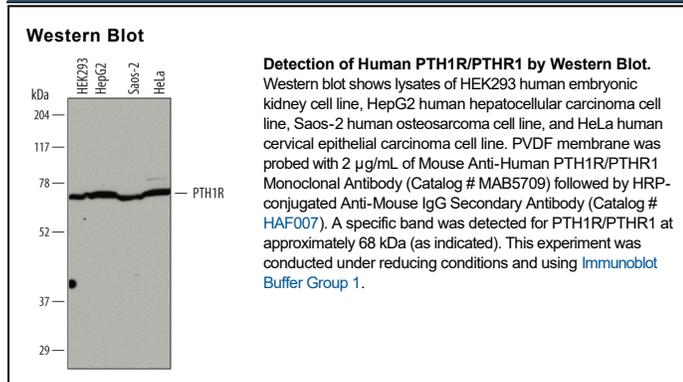
Species Reactivity	Human
Specificity	Detects human PTH1R/PTHR1 in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG ₁ Clone # 734630
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human PTH1R/PTHR1 Tyr23-Met189 Accession # Q03431
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	2 µg/mL	See Below
Immunohistochemistry	5-25 µg/mL	Immersion fixed paraffin-embedded sections of human kidney

DATA



PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.