10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-Parathyroid Hormone Receptor 1 Monoclonal Antibody

Catalog # ABO14666

Product Information

Application	WB, IP
Primary Accession	Q03431
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Human
Clonality	Monoclonal
Format	Liquid
Description	Anti-Parathyroid Hormone Receptor 1 Monoclonal Antibody . Tested in WB, IP applications. This antibody reacts with Human.

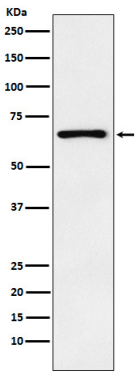
Additional Information

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
Calculated MW	66361
Application Details	WB 1:500-1:2000 IP 1:50
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: AEHO-16
Immunogen	A synthesized peptide derived from human Parathyroid Hormone Receptor 1 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.
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

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 (PTHLH) (PubMed:10913300, PubMed:18375760, PubMed:19674967, PubMed:27160269, PubMed:30975883, PubMed:35932760, PubMed: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.

Images



Western blot analysis of Parathyroid Hormone Receptor 1 expression in HeLa cell lysate.