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Anti-PTHrP Reference Antibody (Chugai patent anti-PTHrP)

Catalog # APR11485

Product Information

Application	Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA
Primary Accession	P12272
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	20194

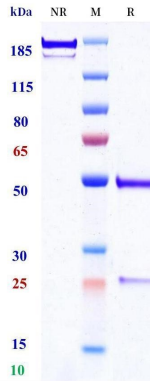
Additional Information

Target/Specificity	PTHrP
Expression system	CHO

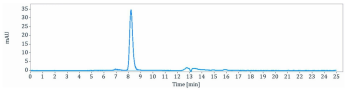
Protein Information

Name	PTHLH {ECO:0000303|PubMed:20170896, ECO:0000312|HGNC:HGNC:9607}
Function	Neuroendocrine peptide which is a critical regulator of cellular and organ growth, development, migration, differentiation and survival and of epithelial calcium ion transport (PubMed:12538599, PubMed:35932760, PubMed:3616618). Acts by binding to its receptor, PTH1R, activating G protein-coupled receptor signaling (PubMed:19674967, PubMed:35932760). Regulates endochondral bone development and epithelial-mesenchymal interactions during the formation of the mammary glands and teeth (By similarity). Required for skeletal homeostasis (PubMed:12538599). Promotes mammary mesenchyme differentiation and bud outgrowth by modulating mesenchymal cell responsiveness to BMPs (PubMed:12538599). Up-regulates BMPR1A expression in the mammary mesenchyme and this increases the sensitivity of these cells to BMPs and allows them to respond to BMP4 in a paracrine and/or autocrine fashion (By similarity). BMP4 signaling in the mesenchyme, in turn, triggers epithelial outgrowth and augments MSX2 expression, which causes the mammary mesenchyme to inhibit hair follicle formation within the nipple sheath (By similarity). Promotes colon cancer cell migration and invasion in an integrin alpha-6/beta-1- dependent manner through activation of Rac1 (PubMed:20637541).
Cellular Location	Secreted. Cytoplasm. Nucleus
Tissue Location	Ubiquitous. Also expressed in the mammary gland.

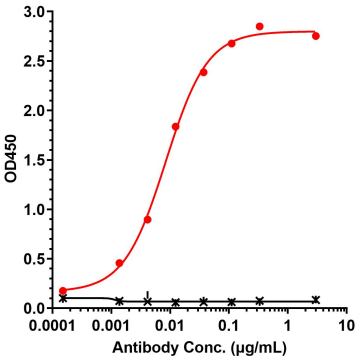
Images



Anti-PTHrP Reference Antibody (Chugai patent anti-PTHrP) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.



The purity of Anti-PTHrP Reference Antibody (Chugai patent anti-PTHrP) is 97.79%, determined by SEC-HPLC.



Immobilized N-GST-hu-PTHRP(1-34)(37aa-70aa)-His, It's target at 2 μg/mL can bind Chugai patent anti-PTHrP, EC50= 0.008405 μg/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.