

Human Parathyroid Hormone Related Protein (PTHrP) ELISA Kit | PTHrP elisa kit

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CATALOG #
AAA331245

REACTIVITY
Human

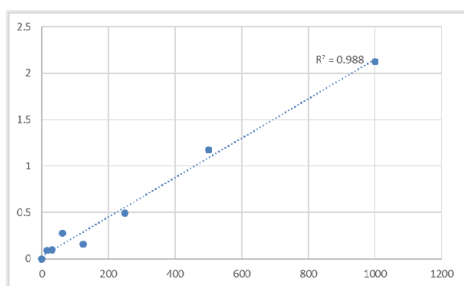
PRODUCT SYNONYMS

Parathyroid Hormone Related Protein (PTHrP); Human Parathyroid Hormone Related Protein (PTHrP) ELISA Kit; PTHLH; HHM; MGC14611; PLP; PTHR; PTHRP; PTH-related protein; humoral hypercalcemia of malignancy; osteostatin; parathyroid hormone-like protein; parathyroid hormone-like related protein; parathyroid hormone-rel; PTHrP elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Parathyroid Hormone Related Protein (PTHrP) ELISA Kit has high sensitivity and excellent specificity for detection of Human PTHLH. No significant cross-reactivity or interference between Human PTHLH and analogues was observed.
Sequence Length	177
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Parathyroid Hormone Related Protein (PTHrP) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for PTHrP elisa kit	Description: This Human Parathyroid Hormone Related Protein (PTHrP) ELISA Kit employs a two-site sandwich ELISA to quantitate PTHLH in samples. An antibody specific for PTHLH has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PTHLH present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PTHLH is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of PTHLH bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Parathyroid hormone-related protein (or PTHrP) is a protein occasionally secreted by cancer cells (breast cancer, certain types of lung cancer including squamous cell carcinoma). However, it also has normal functions. PTHrP acts as an endocrine, autocrine/ paracrine, and intracrine hormone. PTHrP is related in function to the "normal" parathyroid hormone. When a tumor secretes PTHrP, this can lead to hypercalcemia. As this is sometimes the first sign of the malignancy, hypercalcemia caused by PTHrP is considered a paraneoplastic phenomenon. PTHrP shares the same N-terminal end as parathyroid hormone and therefore it can bind to the same receptor (the Type I PTH receptor). PTHrP aids in normal mammary gland development and lactation as well as placental transfer of calcium.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	39995093
NCBI GeneID	5744
NCBI Accession #	NP_945317.1
NCBI GenBank Nucleotide #	NP_945317.1
UniProt Accession #	P12272
NCBI Official Full Name	parathyroid hormone-related protein isoform 1 preproprotein
NCBI Official Synonym Full Names	parathyroid hormone like hormone
NCBI Official Symbol	PTHLH
NCBI Official Synonym Symbols	HHM; PLP; BDE2; PTHR; PTHRP
NCBI Protein Information	parathyroid hormone-related protein
UniProt Protein Name	Parathyroid hormone-related protein
UniProt Gene Name	PTHLH
UniProt Synonym Gene Names	PTHRP; PTH-rP; PTHrP; PLP
UniProt Entry Name	PTHR_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.