

# Rat Parathyroid Hormone-Like Related Protein (PTH LH) ELISA Kit

Catalog No: #EK7991

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Package Size: #EK7991-1 48T #EK7991-2 96T

## Description

Product Name	Rat Parathyroid Hormone-Like Related Protein (PTH LH) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat ( <i>Rattus norvegicus</i> )
Other Names	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
Accession No.	Q9GLC7
Uniprot	Q9GLC7
GeneID	100009357;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.  The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

## Application Details

Detect Range:15.6-1000 pg/mL

Sensitivity:6.2 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate PTH LH in samples. An antibody specific for PTH LH has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPTH LH present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PTH LH 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 PTH LH bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**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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Note: This product is for in vitro research use only