

## Goat Parathyroid Hormone (PTH) ELISA Kit

Catalog No: #EK7999



Package Size: #EK7999-1 48T #EK7999-2 96T

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## Description

Product Name	Goat Parathyroid Hormone (PTH) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Goat ( <i>Capra hircus</i> ; Caprine)
Other Names	PTH1; parathormone parathyrin parathyroid hormone 1
Storage	<p>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.</p> <p>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).</p>

## Application Details

Detect Range:Request Information

Sensitivity:Request Information

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:**Sandwich  
**Test principle:**This assay employs a two-site sandwich ELISA to quantitate PTH in samples. An antibody specific for PTH has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PTH present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PTH 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 bound in the initial step. The color development is stopped and the intensity of the color is measured.

**Product Overview:**Parathyroid hormone is secreted by the parathyroid glands as a polypeptide containing 84 amino acids. It acts to increase the concentration of calcium (Ca<sup>2+</sup>) in the blood, whereas calcitonin (a hormone produced by the parafollicular cells (C cells) of the thyroid gland) acts to decrease calcium concentration. PTH acts to increase the concentration of calcium in the blood by acting upon parathyroid hormone receptor in three parts of the body: PTH half-life is approximately 4 minutes. It has a molecular mass of 9.4 kDa.

PTH was one of the first hormones to be shown to use the G-protein, adenylyl cyclase second messenger system. Normal total plasma calcium level ranges from 8.5 to 10.2 mg/dL (2.12 mmol/L to 2.55 mmol/L).

**Note:** This product is for in vitro research use only