

# Pig Parathyroid hormone/parathyroid hormone-related peptide receptor (PTH1R) ELISA Kit



Catalog No: #EK11395

Orders: order@signalwayantibody.com

Package Size: #EK11395-1 48T #EK11395-2 96T

Support: tech@signalwayantibody.com

## Description

Product Name	Pig Parathyroid hormone/parathyroid hormone-related peptide receptor (PTH1R) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Pig ( <i>Sus scrofa</i> ; Porcine)
Other Names	MGC138426; MGC138452; PFE; PTHR; PTHR1; OTTHUMP00000209970 OTTHUMP00000209971 PTH/PTHr receptor PTH/PTHrP type I receptor parathyroid hormone receptor 1 parathyroid hormone/parathyroid hormone-relat
Accession No.	P50133
Uniprot	P50133
GeneID	397675;
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:0.312-20 ng/mL

Sensitivity:0.114 ng/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 PTH1R in samples. An antibody specific for PTH1R has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPTH1R present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PTH1R 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 PTH1R bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Parathyroid hormone receptor 1 functions as a receptor for parathyroid hormone (PTH) and for parathyroid hormone-like hormone (PTHrP).This "classical" PTH receptor is expressed in high levels in bone and kidney and regulates calcium ion homeostasis through activation of adenylate cyclase and phospholipase C. In bone, it is expressed on the surface of osteoblasts. When the receptor is activated, these cells in turn stimulate osteoclasts to ultimately increase the resorption rate.It is a member of the secretin family of G protein-coupled receptors. The activity of this receptor is mediated by Gs G proteins which activate adenyllyl cyclase. Besides, they also activate

phosphatidylinositol-calcium second messenger system. Expressed in most tissues. Most abundant in kidney, bone and liver.

---

Note: This product is for in vitro research use only