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Datasheet for ABIN3044704

DKK1 ELISA Kit

1 Image

Overview

Quantity:	96 tests
Target:	DKK1
Binding Specificity:	AA 23-270
Reactivity:	Rat
Method Type:	Sandwich ELISA
Detection Range:	46.9-3000 pg/mL
Minimum Detection Limit:	46.9 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Rat DKK1
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Immunogen sequence: S23-H270
Specificity:	Expression system for standard: NSO Immunogen sequence: S23-H270
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	<15pg/mL

Product Details

Material not included: Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette tips. Multichannel pipettes are recommended in the condition of large amount of samples in the detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation of 0.01M TBS: Add 1.2g Tris, 8.5g NaCl

Target Details

Target: DKK1

Alternative Name: DKK1 ([DKK1 Products](#))

Background: Background: Dickkopf-related protein 1 is a protein that in humans is encoded by the DKK1 gene, which was mapped to chromosome 10q11.2. This gene encodes a protein that is a member of the dickkopf family. It is a secreted protein with two cysteine rich regions and is involved in embryonic development through its inhibition of the WNT signaling pathway. Elevated levels of DKK1 in bone marrow, plasma and peripheral blood is associated with the presence of osteolytic bone lesions in patients with multiple myeloma.

Synonyms: Dickkopf homolog 1 (Xenopus laevis) (Predicted) ,Dickkopf-like protein 1 ,Protein Dkk1 ,Dkk1 ,DKK1 , Dkk1_predicted , LOC100912050 ,rCG_48380 ,

Full Gene Name: dickkopf WNT signaling pathway inhibitor 1

Gene ID: 293897

UniProt: [D3Z9J1](#)

Pathways: [WNT Signaling](#), [Regulation of Muscle Cell Differentiation](#), [Positive Regulation of fat Cell Differentiation](#)

Application Details

Application Notes: Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.

Plate: Pre-coated

Protocol: rat DKK1 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for DKK1 has been precoated onto 96-well plates. Standards(Expression system for standard: NSO, Immunogen sequence: S23-H270) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for DKK1 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with

Application Details

PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the rat DKK1 amount of sample captured in plate.

Assay Procedure: Aliquot 0.1 mL per well of the 3000pg/mL, 1500pg/mL, 750pg/mL, 375.pg/mL, 187.5pg/mL, 93.8pg/mL, 46.9pg/mL rat DKK1 standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of rat cell culture supernatants, serum or plasma (heparin, EDTA) to each empty well. See "Sample Dilution Guideline" above for details. We recommend that each rat DKK1 standard solution and each sample is measured in duplicate.

Restrictions: For Research Use only

Handling

Buffer: heparin or EDTA

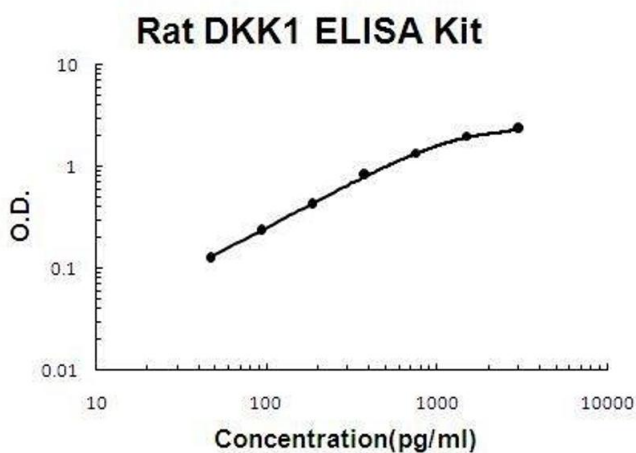
Handling Advice: Avoid multiple freeze-thaw cycles.

Storage: 4 °C, -20 °C

Storage Comment: Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles

Expiry Date: 12 months

Images



ELISA

Image 1. Rat DKK1 PicoKine ELISA Kit standard curve