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Datasheet for ABIN1672821 DKK1 ELISA Kit

Image



Overview

Quantity:	96 tests
Target:	DKK1
Binding Specificity:	AA 32-266
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	62.5-4000 pg/mL
Minimum Detection Limit:	62.5 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human DKK-1
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: sf21 Immunogen sequence: T32-H266
Specificity:	Expression system for standard: sf21 Immunogen sequence: T32-H266
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

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Product Details

Sensitivity:	<10pg/mL
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-like protein 1 ,DKK1 , Full Gene Name: dickkopf WNT signaling pathway inhibitor 1
Gene ID:	22943
UniProt:	I1W660
Pathways:	WNT Signaling, Regulation of Muscle Cell Differentiation, Positive Regulation of fat Cell Differentiation

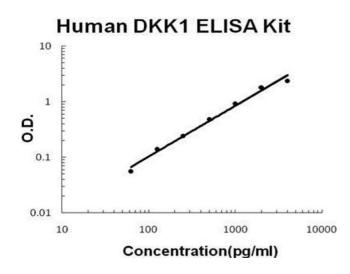
Application Details

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:	human 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(sf21,T32-H266) 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 PBS or TBS buffer. HRP substrate

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	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 human DKK1 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 4000pg/mL, 2000pg/mL,1000pg/mL, 500pg/mL, 250pg/mL,
	125pg/mL, 62.5pg/mL human 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 human cell culture supernates, serum or plasma(heparin, EDTA) to
	each empty well. See "Sample Dilution Guideline" above for details. It is recommended that
	each human DKK1 standard solution and each sample be measured in duplicate.
Assay Precision:	Sample 1: n=16, Mean(pg/ml): 610, Standard deviation: 32.94, CV(%): 5.4
	 Sample 2: n=16, Mean(pg/ml): 1503, Standard deviation: 73.65, CV(%): 4.9
	 Sample 3: n=16, Mean(pg/ml): 2715, Standard deviation: 103.2, CV(%): 3.8,
	 Sample 1: n=24, Mean(pg/ml): 723, Standard deviation: 59.3, CV(%): 8.2
	 Sample 2: n=24, Mean(pg/ml): 1862, Standard deviation: 126.6, CV(%): 6.8
	 Sample 3: n=24, Mean(pg/ml): 3035, Standard deviation: 169.96, CV(%): 5.6
Restrictions:	For Research Use only
Handling	
Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C,4 °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

Application Details



ELISA

Image 1. Human DKK-1 PicoKine ELISA Kit standard curve

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