Datasheet for ABIN921114
HAVCR1 ELISA Kit

1	Image

Overview

Quantity:	96 tests
Target:	HAVCR1
Binding Specificity:	AA 22-212
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	31.2-2000 pg/mL
Minimum Detection Limit:	31.2 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse KIM1
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Tissue Homogenate, Serum, Plasma (heparin), Plasma (EDTA), Urine
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: Y22-T212
Specificity:	Expression system for standard: NSO Immunogen sequence: Y22-T212
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Product Details

Sensitivity:	<2pg/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:	HAVCR1
Alternative Name:	HAVCR1 (HAVCR1 Products)
Target Type:	Virus
Background:	Background: KIM1(TIM-1), also known as Hepatitis A virus cellular receptor 1, is a protein that in Mouses is encoded by the HAVCR1 gene.[1][2][3] Infection of canine osteogenic sarcoma cells expressing HAVCR1 with HAV led Feigelstock et al.(1998) to conclude that the protein is indeed a receptor for the virus. Immunofluorescence microscopy demonstrated internalization of HAV by dog cells expressing HAVCR1. Using a monoclonal antibody to mouse Tim1, Umetsu et al.(2005) showed that Tim1 was expressed after activation of naive T cells and on T cells differentiated in Th2-polarizing conditions. By homology of synteny with the mouse Tim1 gene and database analysis, McIntire et al.(2001) mapped the HAVCR1 gene to 5q33.2. The standard used in this kit is recombinant mouse KIM-1, constituting from Y22-T212 amino acids, and 191amino acids with the molecular mass of 21.8KDa.
	Synonyms: Hepatitis A virus cellular receptor 1 homolog ,Hepatitis A virus cellular receptor 1, isoform CRA_b ,Havcr1 ,mCG_117142 ,
	Full Gene Name: hepatitis A virus cellular receptor 1
Gene ID:	171283
UniProt:	Q3V033

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:	mouse KIM1 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for KIM1 has been precoated onto 96-well

Application Details

plates. Standards(NSO, Y22-T212) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for KIM1 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 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 mouse KIM1 amount of sample captured in plate.

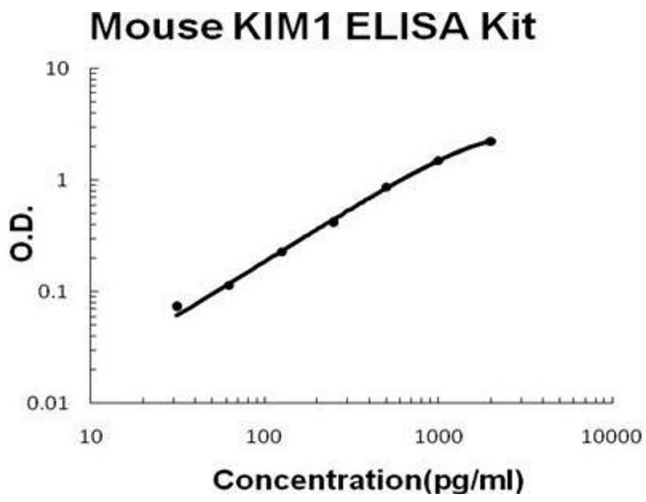|	
Assay Procedure:	Aliquot 0.1 mL per well of the 2000pg/mL, 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL mouse KIM1 standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of mouse cell culture supernates, tissue homogenates, serum, plasma(heparin, EDTA) or urine to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each mouse KIM1 standard solution and each sample be measured in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(pg/ml): 306, Standard deviation: 12.24, CV(%): 4 • Sample 2: n=16, Mean(pg/ml): 640, Standard deviation: 35.2, CV(%): 5.5 • Sample 3: n=16, Mean(pg/ml): 1118, Standard deviation: 69.32, CV(%): 6.2, • Sample 1: n=24, Mean(pg/ml): 418, Standard deviation: 24.7, CV(%): 5.9 • Sample 2: n=24, Mean(pg/ml): 825, Standard deviation: 58.6, CV(%): 7.1 • Sample 3: n=24, Mean(pg/ml): 1263, Standard deviation: 96, CV(%): 7.6
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

Images

Mouse KIM1 ELISA Kit

ELISA

Image 1. Mouse KIM1 PicoKine ELISA Kit standard curve