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Datasheet for ABIN1889390

HVEM ELISA Kit

1 Image

Overview

Quantity:	96 tests
Target:	HVEM (TNFRSF14)
Binding Specificity:	AA 39-202
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	15.6-1000 pg/mL
Minimum Detection Limit:	15.6 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human TNFRSF14/HVEM
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: L39-V202
Specificity:	Expression system for standard: NSO Immunogen sequence: L39-V202
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Product Details

Sensitivity: <1pg/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: HVEM (TNFRSF14)

Alternative Name: TNFRSF14 ([TNFRSF14 Products](#))

Target Type: Viral Protein

Background: Protein Function: Receptor for BTLA. Receptor for TNFSF14/LIGHT and homotrimeric TNFSF1/lymphotoxin-alpha. Involved in lymphocyte activation. Plays an important role in HSV pathogenesis because it enhanced the entry of several wild-type HSV strains of both serotypes into CHO cells, and mediated HSV entry into activated human T-cells. .

Background: Tumor necrosis factor receptor superfamily member 14(TNFRSF14), also known as HVEM, is a protein that in humans is encoded by the TNFRSF14 gene. The protein encoded by this gene is a member of the TNF-receptor superfamily. It is mapped to 1p36.32. HVEM plays an important role in HSV pathogenesis because it enhanced the entry of several wildtype HSV strains of both serotypes into CHO cells, and mediated HSV entry into activated human T cells. HVEM and BTLA which are form a bidirectional signaling pathway can regulate cell survival and inhibitory responses between interacting cells. HVEM as an important orchestrator of mucosal immunity integrates signals from innate lymphocytes to induce optimal epithelial Stat3 activation, which indicated that targeting HVEM with agonists could improve host defense.

Synonyms: Tumor necrosis factor receptor superfamily member 14,Herpes virus entry mediator A,Herpesvirus entry mediator A,HveA,Tumor necrosis factor receptor-like 2,TR2,CD270,TNFRSF14,HVEA, HVEM,UNQ329/PRO509,

Full Gene Name: Tumor necrosis factor receptor superfamily member 14

Cellular Localisation: Membrane, Single-pass type I membrane protein.

Gene ID: 8764

UniProt: [Q92956](#)

Pathways: [Production of Molecular Mediator of Immune Response, Cancer Immune Checkpoints](#)

Application Details

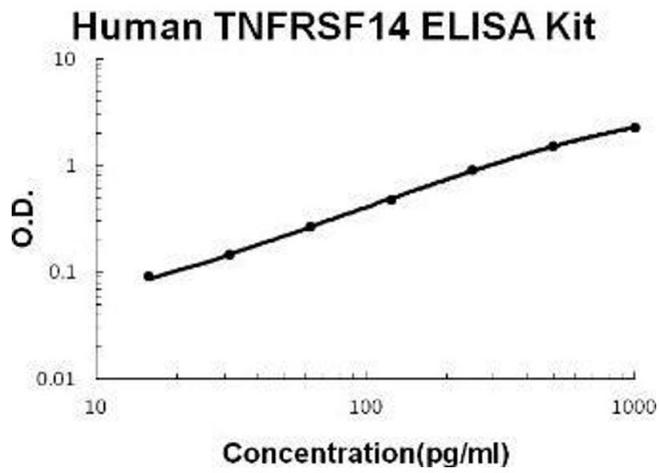
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.
Comment:	Sequence similarities: Contains 3 TNFR-Cys repeats. Tissue Specificity: Widely expressed, with the highest expression in lung, spleen and thymus.
Plate:	Pre-coated
Protocol:	human TNFRSF14 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for TNFRSF14 has been precoated onto 96-well plates. Standards(NSO, L39-V202) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for TNFRSF14 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 human TNFRSF14 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL, 15.6pg/mL human TNFRSF14 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 TNFRSF14 standard solution and each sample be measured in duplicate.

Assay Precision:	<ul style="list-style-type: none">• Sample 1: n=16, Mean(pg/ml): 67, Standard deviation: 2.68, CV(%): 4• Sample 2: n=16, Mean(pg/ml): 284, Standard deviation: 9.94, CV(%): 3.5• Sample 3: n=16, Mean(pg/ml): 626, Standard deviation: 32.6, CV(%): 5.2,• Sample 1: n=24, Mean(pg/ml): 87, Standard deviation: 4.61, CV(%): 5.3• Sample 2: n=24, Mean(pg/ml): 324, Standard deviation: 15.55, CV(%): 4.8• Sample 3: n=24, Mean(pg/ml): 682, Standard deviation: 41.6, CV(%): 6.1
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Restrictions:	For Research Use only
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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



ELISA

Image 1. Human TNFRSF14/HVEM PicoKine ELISA Kit standard curve