

Datasheet for ABIN1672746

Oncostatin M ELISA Kit

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1 Image

Overview

Quantity:	96 tests
Target:	Oncostatin M (OSM)
Binding Specificity:	AA 26-220
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 OSM/Oncostatin M
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: E.coli Immunogen sequence: A26R-220
Specificity:	Expression system for standard: E.coli Immunogen sequence: A26R-220
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

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:	Oncostatin M (OSM)
Alternative Name:	OSM (OSM Products)
Background:	<p>Protein Function: Growth regulator. Inhibits the proliferation of a number of tumor cell lines. Stimulates proliferation of AIDS-KS cells. It regulates cytokine production, including IL-6, G-CSF and GM-CSF from endothelial cells. Uses both type I OSM receptor (heterodimers composed of LIPR and IL6ST) and type II OSM receptor (heterodimers composed of OSMR and IL6ST).</p> <p>Involved in the maturation of fetal hepatocytes, thereby promoting liver development and regeneration (By similarity). .</p> <p>Background: OSM(Oncostatin M) is a protein that in humans is encoded by the OSM gene. OSM is a pleiotropic cytokine that belongs to the interleukin 6 group of cytokines. The OSM gene is mapped on 22q12.2. Of these cytokines it most closely resembles leukemia inhibitory factor(LIF) in both structure and function. Treatment with recombinant OSM leads to the inhibition of proliferation and changes in cellular morphology of a number of tumor cell lines derived from a wide variety of tissue types. OSM signals through cell surface receptors that contain the protein gp130. The type I receptor is composed of gp130 and LIFR, the type II receptor is composed of gp130 and OSMR.</p> <p>Synonyms: Oncostatin-M,OSM,OSM,</p> <p>Full Gene Name: Oncostatin-M</p> <p>Cellular Localisation: Secreted.</p>
Gene ID:	5008
UniProt:	P13725
Pathways:	JAK-STAT Signaling , Negative Regulation of Hormone Secretion

Application Details

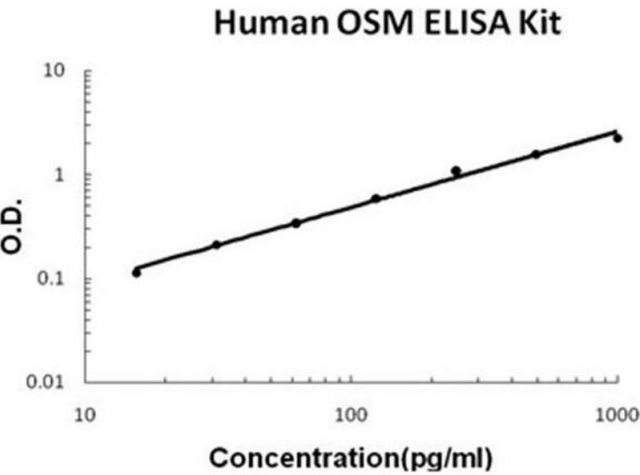
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.
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Application Details

Plate:	Pre-coated
Protocol:	human OSM ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for OSM has been precoated onto 96-well plates. Standards(E.coli, A26R-220) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for OSM 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 OSM 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 OSM 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 OSM standard solution and each sample be measured in duplicate.
Assay Precision:	<ul style="list-style-type: none">• Sample 1: n=16, Mean(pg/ml): 104, Standard deviation: 5.72, CV(%): 5.5• Sample 2: n=16, Mean(pg/ml): 351, Standard deviation: 16.15, CV(%): 4.6• Sample 3: n=16, Mean(pg/ml): 627, Standard deviation: 42.64, CV(%): 6.8,• Sample 1: n=24, Mean(pg/ml): 135, Standard deviation: 8.37, CV(%): 6.2• Sample 2: n=24, Mean(pg/ml): 392, Standard deviation: 20.78, CV(%): 5.3• Sample 3: n=24, Mean(pg/ml): 658, Standard deviation: 47.4, CV(%): 7.2
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



ELISA

Image 1. Human OSM/Oncostatin M PicoKine ELISA Kit standard curve