

Datasheet for ABIN1889321

MST1 ELISA Kit**1** Image[Go to Product page](#)

Overview

Quantity:	96 tests
Target:	MST1
Binding Specificity:	AA 19-711
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	156-10000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human MSP/MST1
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: Q19-G711
Specificity:	Expression system for standard: NSO Immunogen sequence: Q19-G711
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:	MST1
Alternative Name:	MST1 (MST1 Products)
Background:	<p>Background: Macrophage Stimulating 1(SMT1), also known as Hepatocyte growth factor-like protein(HGFL) and MSP, is a protein that in humans is encoded by the MST1 gene. The HGFL gene was identified at the DNF15S2 locus on human chromosome 3(3p21). The RON tyrosine kinase), the receptor for MSP, is expressed on the ciliated epithelia of the mucociliary transport apparatus of the lung. Furthermore, MSP stimulated ciliary motility in these cells by activating RON.</p> <p>Synonyms: Hepatocyte growth factor-like protein,Macrophage stimulatory protein,Macrophage-stimulating protein,MSP,Hepatocyte growth factor-like protein alpha chain,Hepatocyte growth factor-like protein beta chain,MST1,D3F15S2, DNF15S2, HGFL,</p> <p>Full Gene Name: Hepatocyte growth factor-like protein</p> <p>Cellular Localisation: Secreted.</p>
Gene ID:	4485
UniProt:	P26927

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: Belongs to the peptidase S1 family. Plasminogen subfamily.
Plate:	Pre-coated
Protocol:	human MSP ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for MSP has been precoated onto 96-well plates. Standards(NSO, Q19-G711) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for MSP is added subsequently and then

Application Details

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 MSP amount of sample captured in plate.

Assay Procedure: Aliquot 0.1 mL per well of the 10000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 312pg/mL, 156pg/mL human MSP 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 MSP standard solution and each sample be measured in duplicate.

Assay Precision:

- Sample 1: n=16, Mean(pg/ml): 1126, Standard deviation: 56.3, CV(%): 5
- Sample 2: n=16, Mean(pg/ml): 2738, Standard deviation: 170, CV(%): 6.2
- Sample 3: n=16, Mean(pg/ml): 5273, Standard deviation: 242.6, CV(%): 4.6,
- Sample 1: n=24, Mean(pg/ml): 1384, Standard deviation: 78.9, CV(%): 5.7
- Sample 2: n=24, Mean(pg/ml): 2941, Standard deviation: 206, CV(%): 7
- Sample 3: n=24, Mean(pg/ml): 5527, Standard deviation: 364.8, CV(%): 6.6

Restrictions: For Research Use only

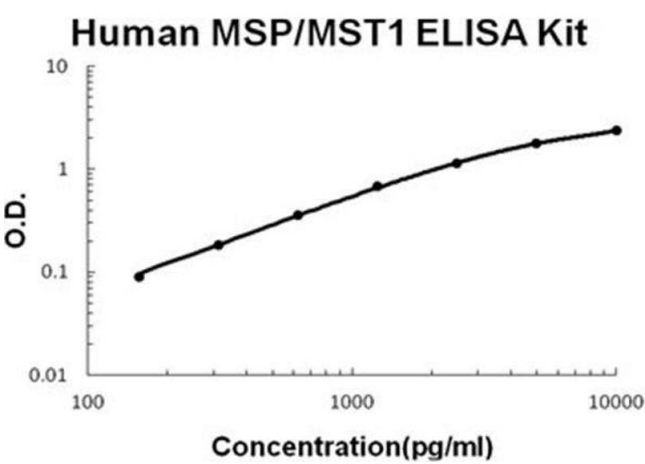
Handling

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



ELISA

Image 1. Human MSP/MST1 PicoKine ELISA Kit standard curve