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M-CSF/CSF1 ELISA Kit





Overview

Quantity:	96 tests
Target:	M-CSF/CSF1 (CSF1)
Binding Specificity:	AA 33-190
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 M-CSF
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Tissue Homogenate, Serum, Plasma (heparin), Plasma (EDTA), Saliva, Urine
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: E.coli Immunogen sequence: E33-S190
Specificity:	Expression system for standard: E.coli Immunogen sequence: E33-S190

Product Details

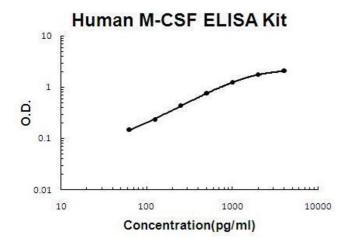
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	<10pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette
	tips. Multichannel pipettes are recommended in the condition of large 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:	M-CSF/CSF1 (CSF1)
Alternative Name:	CSF1 (CSF1 Products)
Background:	Protein Function: Cytokine that plays an essential role in the regulation of survival, proliferation
	and differentiation of hematopoietic precursor cells, especially mononuclear phagocytes, such
	as macrophages and monocytes. Promotes the release of proinflammatory chemokines, and
	thereby plays an important role in innate immunity and in inflammatory processes. Plays an
	important role in the regulation of osteoclast proliferation and differentiation, the regulation of
	bone resorption, and is required for normal bone development. Required for normal male and
	female fertility. Promotes reorganization of the actin cytoskeleton, regulates formation of
	membrane ruffles, cell adhesion and cell migration. Plays a role in lipoprotein clearance
	Background: M-CSF, also called CSF1, has a role in development of the placenta. Uterine CSF1
	concentration is regulated by a synergistic action of estradiol and progesterone. CSF1 is
	produced by uterine glandular epithelial cells. It had been found that FMS, the CSF1 receptor, is
	expressed in placenta and choriocarcinoma cell lines1. The CSF1 gene is mapped to 1p21-p13
	and contains 10 exons and 9 introns spanning 20 kb2. And there are 2 forms of CSF1, with 224
	and 522 amino acids, resulting from alternative splicing3.
	Synonyms: Macrophage colony-stimulating factor 1,CSF-1,M-CSF,MCSF,Lanimostim,Processed
	macrophage colony-stimulating factor 1,CSF1,
	Full Gene Name: Macrophage colony-stimulating factor 1
	Cellular Localisation: Cell membrane, Single-pass type I membrane protein.
Gene ID:	1435
UniProt:	P09603
Pathways:	RTK Signaling

Application Details

Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well
Αρριισατίστι ποτές.	assay was recommended for both standard and sample testing.
Plate:	Pre-coated
Protocol:	human M-CSF ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent
	assay technology. A monoclonal antibody from mouse specific for M-CSF has been precoated
	onto 96-well plates. Standards(E.coli, E33-S190) and test samples are added to the wells, a
	biotinylated detection polyclonal antibody from goat specific for M-CSF 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 M-CSF 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 M-CSF 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, tissue lysates, serum, plasma
	(heparin or EDTA), saliva or urine to each empty well. See "Sample Dilution Guideline" above fo
	details. It is recommended that each human M-CSF standard solution and each sample be
	measured in duplicate.
Assay Precision:	Sample 1: n=16, Mean(pg/ml): 546, Standard deviation: 36.6, CV(%): 6.7
	 Sample 2: n=16, Mean(pg/ml): 1011, Standard deviation: 44.5, CV(%): 4.4
	• Sample 3: n=16, Mean(pg/ml): 2456, Standard deviation: 125.3, CV(%): 5.1,
	 Sample 1: n=24, Mean(pg/ml): 623, Standard deviation: 43.61, CV(%): 7 Sample 2: n=24, Mean(pg/ml): 1528, Standard deviation: 85.57, CV(%): 5.6
	 Sample 3: n=24, Mean(pg/ml): 2629, Standard deviation: 152.5, CV(%): 5.8
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 M-CSF PicoKine ELISA Kit standard curve