

Datasheet for ABIN2859293 CSF3R ELISA Kit

Image



Overview

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Quantity:	96 tests
Target:	CSF3R
Binding Specificity:	AA 25-621
Reactivity:	Human
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 Human CSF3R/G-CSF R
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: E25-P621
Specificity:	NSO, E25-P621
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	<10pg/mL

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Product Details

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:	CSF3R
Alternative Name:	CSF3R (CSF3R Products)
Background:	Protein Function: Receptor for granulocyte colony-stimulating factor (CSF3), essential for
	granulocytic maturation. Plays a crucial role in the proliferation, differientation and survival of
	cells along the neutrophilic lineage. In addition it may function in some adhesion or recognitior
	events at the cell surface
	Background: The granulocyte colony-stimulating factor receptor (G-CSF-R), also known as
	CD114 (Cluster of Differentiation 114), is a protein that in humans is encoded by the CSF3R
	gene. It is mapped to 1p35-p34.3. G-CSF-R is a cell-surface receptor for the granulocyte colony
	stimulating factor (G-CSF). And the G-CSF-R is a transmembrane receptor that consists of an
	extracellular ligand-binding portion, a transmembrane domain, and the cytoplasmic portion that
	is responsible for signal transduction. In addition, GCSF-R ligand-binding is associated with
	dimerization of the receptor and signal transduction through proteins including Jak, Lyn, STAT
	andErk1/2.
	Synonyms: Granulocyte colony-stimulating factor receptor,G-CSF receptor,G-CSF-
	R,CD114,CSF3R,GCSFR,
	Full Gene Name: Granulocyte colony-stimulating factor receptor
	Cellular Localisation: Isoform 2: Secreted.
Gene ID:	1441

Application Details

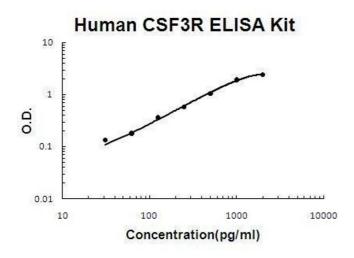
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.
Comment:	Tissue Specificity: One or several isoforms have been found in myelogenous leukemia cell line
	KG-1, leukemia U-937 cell line, in bone marrow cells, placenta, and peripheral blood
	granulocytes. Isoform GCSFR-2 is found only in leukemia U-937 cells. Isoform GCSFR-3 is

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Application Details

	highly expressed in placenta.
Plate:	Pre-coated
Protocol:	human CSF3R ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent
	assay technology. A monoclonal antibody from mouse specific for CSF3R has been precoated
	onto 96-well plates. Standards(NSO, E25-P621) and test samples are added to the wells, a
	biotinylated detection polyclonal antibody from goat specific for CSF3R 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 CSF3R 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 human CSF3R 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 and plasma(heparin, EDTA) to
	each empty well. See "Sample Dilution Guideline" above for details. It is recommended that
	each human CSF3R standard solution and each sample be measured in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(pg/ml): 236, Standard deviation: 12.51, CV(%): 5.3
	 Sample 2: n=16, Mean(pg/ml): 819, Standard deviation: 50, CV(%): 6.1
	• Sample 3: n=16, Mean(pg/ml): 1237, Standard deviation: 59.4, CV(%): 4.8,
	 Sample 1: n=24, Mean(pg/ml): 326, Standard deviation: 21.19, CV(%): 6.5 Sample 2: n=24, Mean(pg/ml): 928, Standard deviation: 66.82, CV(%): 7.2
	 Sample 2: n=24, Mean(pg/ml): 1528, Standard deviation: 84.04, CV(%): 5.5
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

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ELISA

Image 1. Human CSF3R/G-CSF R PicoKine ELISA Kit standard curve

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