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Cardiotrophin 1 ELISA Kit





Go to Product page

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Quantity:	1 kit
Target:	Cardiotrophin 1 (CTF1)
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	156 pg/mL - 10000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	Synonyms: Cardiophin 1, Cardiophin1, Cardiotrophin I, Cardiotrophin-1, CardiotrophinI, CT 1, CT-1, CTF 1, Ctf1, CTF1_HUMAN

Background: Cardiotrophin-1(CT-1) is a member of the family of cytokines that includes leukemia inhibitory factor(LIF), ciliary neurotrophic factor(CNTF), oncostatin M(OSM), interleukin-6(IL6), and interleukin-11(IL11). And the CT-1 gene is mapped to 1p21-p13. The human CT-1 protein contains 201 amino acids and shares 80 % amino acid identity with the 203-amino acid mouse CT-1 sequence, however, unlike the mouse protein, human CT-1 has 2 rather than 1 cys and has no N-glycosylation site. Despite lacking a signal sequence, secreted

CT-1 and mouse CT-1 induce cardiac myocyte hypertrophy in cell culture and bind to both mouse and human LIFR but not to OSMR. Furthermore, A 1.7-kb CT-1 transcript was detected at high levels in heart, skeletal muscle, prostate, and ovary. Low levels were detected in lung, kidney, pancreas, thymus, testis, and small intestine, with little or no expression detected in brain, placenta, spleen, colon, and peripheral blood leukocytes. And it was also observed strong expression in fetal lung and kidn...

Gene Name: CTF1

Production: Natural and recombinant human CT-1. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: E.coli, Immunogen sequence: S2-A201

Target Details

Target:	Cardiotrophin 1 (CTF1)
Alternative Name:	Cardiotrophin-1 (CTF1 Products)
Gene ID:	1489
NCBI Accession:	NP_001136016
UniProt:	Q16619
Pathways:	JAK-STAT Signaling

Application Details

	App	lication	Notes:
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Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 10000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 312pg/mL, 156pg/mL human CT-1 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. It is recommended that each human CT-1 standard solution and each sample be measured in duplicate.

Blood Product Anticoagulant: Heparin Sodium

ELISA Dilution: 156pg/mL-10000pg/mL

Sample Volume: 100 µL

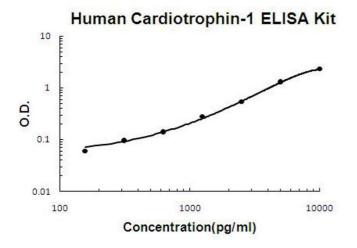
Plate: Pre-coated

Restrictions: For Research Use only

Handling

Storage:	RT,4 °C,-20 °C
Storage Comment:	Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at
	room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only
	prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid
	cycles of freezing and thawing.

Images



ELISA

Image 1. Human Cardiotrophin-1 Accusignal ELISA Kit
Human Cardiotrophin-1 AccuSignal ELISA Kit standard
curve. Assay Range: 156pg/ml-10000pg/ml.
Sensitivity: <10pg/ml.