

Cardiotrophin-1 ELISA Kit | Ctf1 elisa kit

Mouse Cardiotrophin-1 PicoKine ELISA Kit

CATALOG # AAA124800	REACTIVITY Mouse There is no detectable cross-reactivity with other relevant proteins.	APPLICATIONS ELISA
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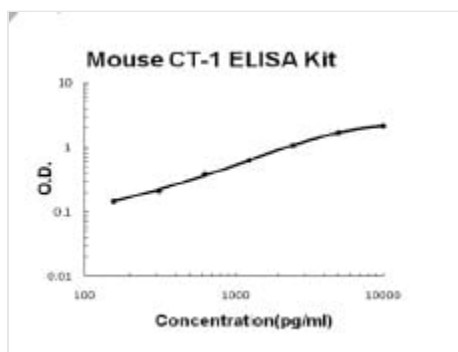
PRODUCT SYNONYMS

Cardiotrophin-1; Mouse Cardiotrophin-1 PicoKine ELISA Kit; CT-1; Ctf1; Ctf1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse There is no detectable cross-reactivity with other relevant proteins.
Specificity	Natural and recombinant Mouse Ctf1
Sequence Length	203
Samples	Cell culture supernates, serum and plasma(heparin, edta)
Detection Range	156pg/ml-10000pg/ml
Sensitivity	<10pg/ml
Applicable Applications for Ctf1 elisa kit	ELISA
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays):Three samples of known concentration were tested in separate assays to assess interassay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Ctf1 elisa kit	Principle of the Assay: The Picokine™ Mouse Ctf1 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Mouse Ctf1 with a 96-well strip plate that is pre-coated with antibody specific for Ctf1. The detection antibody is a biotinylated antibody specific for Ctf1. The capture antibody is a monoclonal antibody from rat, the detection antibody is a biotinylated polyclonal antibody from goat. The kit contains recombinant Mouse Ctf1 with immunogen: Expression system for standard: E.coli, Immunogen sequence: S2-A203. The kit is analytically validated with ready to use reagents. To measure Mouse Ctf1, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly proportional to Mouse Ctf1 in the sample. Read the density of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Mouse Ctf1 in the sample. Background/Introduction: 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 kidney.
Product Categories/Family for Ctf1 elisa kit	Immunology; Innate Immunity; Cytokines; il6 related; Signal Transduction; Metabolism; Energy Metabolism; Lipid Metabolism; Cardiovascular; Atherosclerosis; Diabetes Associated; hypertension; vascular remodelling; Hypertrophy; Heart; Kits/Lysates/Other; EL

NCBI AND UNIPROT INFORMATION

NCBI GI #	6681075
NCBI GeneID	13019
NCBI Accession #	NP_031821.1
NCBI GenBank Nucleotide #	NM_007795.1
UniProt Accession #	Q60753
Molecular Weight	21,509 Da
NCBI Official Full Name	cardiotrophin-1 isoform 1
NCBI Official Synonym Full Names	cardiotrophin 1
NCBI Official Symbol	Ctf1
NCBI Official Synonym Symbols	CT-1
NCBI Protein Information	cardiotrophin-1
UniProt Protein Name	Cardiotrophin-1
UniProt Gene Name	Ctf1
UniProt Synonym Gene Names	CT-1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/ctf1-mouse-elisa-kits/cardiotrophin-1/124800>