

Human Cardiotrophin-1 / CT-1 ELISA Kit | CT-1 elisa kit

CARDIOTROPHIN-1 / CT-1 Human ELISA Kit

CATALOG # AAA58961	REACTIVITY Human	APPLICATIONS ELISA
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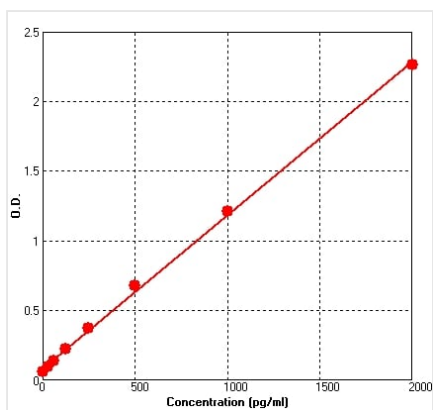
PRODUCT SYNONYMS

Cardiotrophin-1 / CT-1; CARDIOTROPHIN-1 / CT-1 Human ELISA Kit; Human Cardiotrophin-1 / CT-1; CT-1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Assay Type	Sandwich
Detection Range	31.2 pg/ml-2000 pg/ml
Sensitivity	< 10 pg/ml
Applicable Applications for CT-1 elisa kit	ELISA
Preparation and Storage	Store at 2-8 degree C for 2 months, or at -20 degree C for 4 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CT-1 elisa kit	Principle of the assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-CT-1 polyclonal antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-CT-1 polyclonal antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with wash buffer. TMB substrates were 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 CT-1 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of CT-1 can be calculated. Background: Cardiotrophin-1 (CT-1) is a cytokine. CTF1 gene contains 3 exons, spans over 6 to 7 kb. It is a cardiac hypertrophic factor of 21.5 kDa and a protein member of the IL-6 cytokine family. It is highly expressed in the heart, skeletal muscle, prostate and ovary and to lower levels in lung, kidney, pancreas, thymus, testis and small intestine. CT-1 is associated with the pathophysiology of heart diseases, including hypertension, myocardial infarction, valvular heart disease, and congestive heart failure. This protein exerts its cellular effects by interacting with the glycoprotein 130 (gp130)/leukemia inhibitory factor receptor beta (LIFR) heterodimer.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	216548056
NCBI GeneID	1489
NCBI Accession #	NP_001136016.1
NCBI GenBank Nucleotide #	NM_001142544.1
UniProt Accession #	Q16619; Q5U5Y7; A8MVX4
Molecular Weight	21,227 Da
NCBI Official Full Name	cardiotrophin-1 isoform 2
NCBI Official Synonym Full Names	cardiotrophin 1
NCBI Official Symbol	CTF1
NCBI Official Synonym Symbols	CT1; CT-1
NCBI Protein Information	cardiotrophin-1; cardiophin 1
UniProt Protein Name	Cardiotrophin-1
UniProt Gene Name	CTF1
UniProt Synonym Gene Names	CT-1
UniProt Entry Name	CTF1_HUMAN

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/human-elisa-kits/cardiotrophin-1-ct-1/58961>