

Datasheet for ABIN5510574  
**Cardiotrophin 1 ELISA Kit**[Go to Product page](#)

## 1 Image

## Overview

Quantity:	96 tests
Target:	Cardiotrophin 1 (CTF1)
Binding Specificity:	AA 2-203
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Application:	ELISA

## Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse Cardiotrophin-1
Brand:	PicoKine™
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Expression system for standard: E.coli, Immunogen sequence: S2-A203
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.
Characteristics:	Tissue Specificity: Highly expressed in heart, skeletal muscle, liver, lung and kidney. Lower levels in testis and brain. No expression in spleen.

## Target Details

Target:	Cardiotrophin 1 (CTF1)
Alternative Name:	Ctf1 ( <a href="#">CTF1 Products</a> )

## Target Details

Background:	<p>Protein Function: Induces cardiac myocyte hypertrophy in vitro. Binds to and activates the ILST/gp130 receptor.</p> <p>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 kidney.</p> <p>Synonyms: Cardiotrophin-1, CT-1, Ctf1,</p> <p>Full Gene Name: cardiotrophin 1</p> <p>Cellular Localisation: Secreted.</p>
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UniProt:	<a href="#">Q60753</a>
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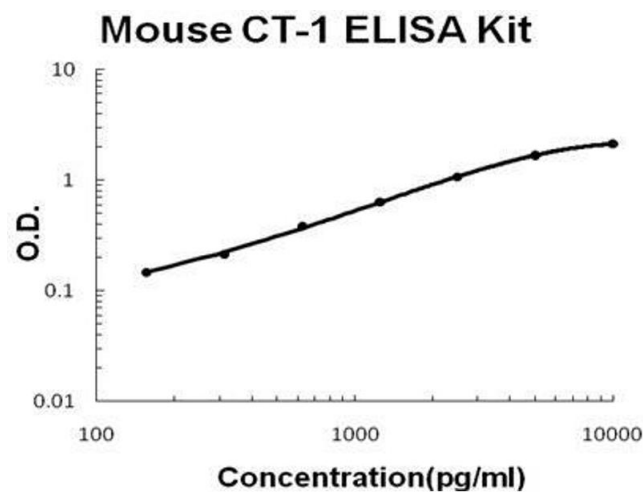
Pathways:	<a href="#">JAK-STAT Signaling</a>
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## Application Details

Plate:	Pre-coated
Restrictions:	For Research Use only

## Handling

Storage:	4 °C,-20 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles(Shipped with wet ice.)
Expiry Date:	12 months



**ELISA**

**Image 1.** Mouse Cardiotrophin-1 PicoKine ELISA Kit standard curve