

## Product datasheet for PP1001P2

### Cardiotrophin 1 (CTF1) Rabbit Polyclonal Antibody

#### Product data:

|                        |   |
|------------------------|---|
| Product Type:          | Primary Antibodies  |
| Applications:          | ELISA, FN, WB   |
| Recommended Dilution:  | <b>Neutralization:</b> To yield one-half maximal inhibition [ND50] of the biological activity of hCardiotrophin-1 (15.0 ng/ml), a concentration of 0.25-0.40 µg/ml of this antibody is required.<br><b>ELISA:</b> To detect hCardiotrophin-1 by direct ELISA (using 100 µl/well antibody solution) a concentration of at least 0.5 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with compatible secondary reagents, allows the detection of 0.2-0.4 ng/well of recombinant hCardiotrophin-1.<br><b>Western Blot:</b> To detect hCardiotrophin-1 by Western Blot analysis this antibody can be used at a concentration of 0.1-0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant hCardiotrophin-1 is 1.5-3.0 ng/lane, under reducing or non-reducing conditions. |
| Reactivity:            | Human   |
| Host:                  | Rabbit  |
| Clonality:             | Polyclonal  |
| Immunogen:             | Highly pure (>98%), E.coli derived 21.1 kDa recombinant hCardiotrophin-1.   |
| Specificity:           | This antibody reacts with Human Cardiotrophin-1   |
| Formulation:           | PBS, pH 7.2 without preservatives.<br>State: Aff - Purified<br>State: Lyophilized purified Ig fraction.   |
| Reconstitution Method: | Restore in sterile water to a concentration of 0.1-1.0 mg/ml.   |
| Purification:          | Affinity chromatography.  |
| Conjugation:           | Unconjugated  |
| Storage:               | Store lyophilized at 2-8°C for 6 months or at -20°C long term.<br>After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term.<br>Avoid repeated freezing and thawing.   |
| Stability:             | Shelf life: one year from despatch.   |
| Gene Name:             | cardiotrophin 1   |



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**Database Link:** [Entrez Gene 1489 Human Q16619](#)

**Background:** Cardiotrophin-1 (CT-1), a cardiac hypertrophic factor, is a 21.5 kDa protein member of the IL-6 cytokine family. CT-1 is associated with the pathophysiology of heart diseases, including hypertension, myocardial infarction, valvular heart disease, and congestive heart failure. The protein exerts its cellular effects by interacting with the glycoprotein 130 (gp130)/leukemia inhibitory factor receptor beta (LIFR) heterodimer. In addition, CT-1 activates phosphatidylinositol 3-kinase (PI-3 kinase) in cardiac myocytes and enhances transcription factor NF kappa B DNA -binding activities. CT-1 is highly expressed in the heart, skeletal muscle, prostate and ovary and to lower levels in lung, kidney, pancreas, thymus, testis and small intestine.

**Synonyms:** CT-1, CTF1

**Note:** Centrifuge vial prior to opening!