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# Product datasheet for PP1001B2

## Cardiotrophin 1 (CTF1) Rabbit Polyclonal Antibody

### Product data:

| | |
|---|---|
| **Product Type:** | Primary Antibodies |
| **Applications:** | ELISA, WB |
| **Recommended Dilution:** | ELISA: To detect hCardiotrophin-1 by direct ELISA (using 100 µl/well antibody solution) this antibody can be used at a concentration of 0.15-0.30 µg/ml. Used in conjunction with compatible secondary reagents, allows the detection of at least 0.2 ng/well of recombinant hCardiotrophin-1.<br>Western Blot: 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 either reducing or non-reducing conditions. |
| **Reactivity:** | Human |
| **Host:** | Rabbit |
| **Clonality:** | Polyclonal |
| **Immunogen:** | Highly pure (>98%) recombinant hCardiotrophin-1. |
| **Specificity:** | This antibody reacts with Human Cardiotrophin-1. |
| **Formulation:** | PBS, pH 7.2 without preservatives.<br>Label: Biotin<br>State: Lyophilized purified Ig fraction.<br>Label: conjugated |
| **Reconstitution Method:** | Restore in sterile PBS containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. |
| **Purification:** | Affinity chromatography. |
| **Conjugation:** | Biotin |
| **Storage:** | Store the antibody prior to reconstitution at -20°C. Following reconstitution the antibody can be stored at 2-8°C for one month or at -20°C for longer.<br>Avoid repeated freezing and thawing. |
| **Stability:** | Shelf life: One year from despatch. |
| **Gene Name:** | cardiotrophin 1 |
| **Database Link:** | Entrez Gene 1489 Human<br>Q16619 |

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**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!