10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# (Mouse) Ctf1 Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21323a

## Product Information

| | |
|---|---|
| **Application** | WB, E |
| **Primary Accession** | Q60753 |
| **Reactivity** | Human, Rat, Mouse |
| **Predicted** | Canine |
| **Host** | Rabbit |
| **Clonality** | polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB52510 |
| **Calculated MW** | 21509 |

## Additional Information

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|---|---|
| **Gene ID** | 13019 |
| **Other Names** | Cardiotrophin-1, CT-1, Ctf1 |
| **Target/Specificity** | This Mouse Ctf1 antibody is generated from a rabbit immunized with a recombinant protein. |
| **Dilution** | WB~~1:2000 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | (Mouse) Ctf1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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|---|---|
| **Name** | Ctf1 {ECO:0000312\|MGI:MGI:105115} |
| **Function** | Functions as a cytokine that binds to the LIF receptor complex (PubMed:7738033, PubMed:9030543). The LIF receptor complex indeed consists of two signaling receptor subunits IL6ST/gp130 and LIFR that transduce the signal into the cell (PubMed:7738033, PubMed:9030543). Functionally, acts as a potent cardiac survival factor, and promotes cardiomyocyte proliferation and hypertrophy (PubMed:7862649, |

PubMed:8625793, PubMed:9050750). Mechanistically, ligand binding to LIFR, induces heterodimerization with IL6ST/gp130 activating JAK tyrosine kinases (JAK1 or JAK2 and to a lesser extent TYK2) bound to their intracellular domains (PubMed:9030543). These kinases subsequently phosphorylate IL6ST/gp130 and LIFR (PubMed:9030543). The tyrosine phosphorylated signaling receptors serve in turn as docking sites for recruitment and activation of signal transducer and activator of transcription STAT3 (PubMed:9030543).

**Cellular Location** Secreted {ECO:0000250|UniProtKB:Q16619}.

**Tissue Location** Highly expressed in heart, skeletal muscle, liver, lung and kidney. Lower levels in testis and brain. No expression in spleen.

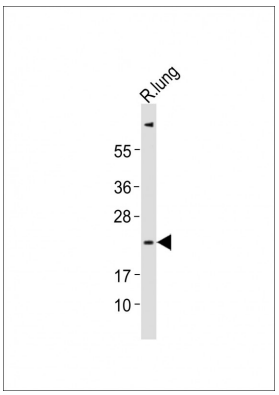
## Background

Induces cardiac myocyte hypertrophy in vitro. Binds to and activates the ILST/gp130 receptor.

## References

Pennica D.,et al.Proc. Natl. Acad. Sci. U.S.A. 92:1142-1146(1995).

## Images




Anti-Ctf1 Antibodyat 1:2000 dilution + rat lung lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 22 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.