

Mouse Cardiotrophin-1/CT-1 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF438

DESCRIPTION

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Species Reactivity	Mouse	
Specificity	Detects Cardiotrophin-1/CT-1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 40% cross-reactivity with recombinant human CT-1 is observed.	
Source	Polyclonal Goat IgG	
Purification	Antigen Affinity-purified	
Immunogen	<i>E. coli</i> -derived recombinant mouse Cardiotrophin-1/CT-1 Ser2-Ala203 Accession # Q60753	
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application.	Conoral Protocolo are quailable in the Technical Information parties on our website
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	Recommended Concentration	Sample
Western Blot	0.1 μg/mL	Recombinant Mouse Cardiotrophin-1/CT-1 (Catalog # 438-CT)
Neutralization		ty to neutralize Cardiotrophin-1/CT-1-induced proliferation in the TF-1 human erythroleukemic . <i>et al.</i> (1989) J. Cell Physiol. 140 :323. The Neutralization Dose (ND ₅₀) is typically 0.08-
	0.48 µg/mL in the pre	esence of 10 ng/mL Recombinant Mouse Cardiotrophin-1/CT-1.



Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C	
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.	
	 12 months from date of receipt, -20 to -70 °C as supplied. 	
	 1 month, 2 to 8 °C under sterile conditions after reconstitution. 	
	 6 months, -20 to -70 °C under sterile conditions after reconstitution. 	

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BACKGROUND

Cardiotrophin-1 (CT-1) is a member of the cytokine family which also includes IL-6, IL-11, leukemia inhibitory factor (LIF), oncostatin M (OSM), and ciliary neurotrophic factor (CNTF). It was originally isolated based on its ability to induce cardiac myocyte hypertrophy *in vitro*. CT-1 has since been shown to be a pleiotrophic cytokine with overlapping actions with other IL-6 family members on a variety of cell types. Mouse CT-1 encodes a 203 amino acid (aa) residue protein that lacks a hydrophobic signal peptide. The mechanism of CT-1 release from cells is currently not understood. Human and mouse CT-1 share 80% as sequence identity and exhibit cross-species activity. CT-1 is highly expressed in heart, skeletal muscle, liver, lung and kidney. Lower levels of CT-1 expression is also seen in testis and brain. CT-1 initiates downstream signaling pathways through the heterodimerization of gp130 and the LIF receptor β subunit. A third α receptor subunit has also been implicated in the receptor complex.

References:

- 1. Pennica, D. et al. (1996) Cytokine and Growth Factor Reviews 7:81.
- 2. Robledo, O. et al. (1997) J. Biol. Chem. 272:4855.

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