ReliaTech GmbH



Specification/Data Sheet

Anti-Human Cardiotrophin-1 (#16B9)

20150122MI



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

 Cat.-no.:
 101-M242

 Size:
 100 μg

Lot. No.: According to product label

Preparation: This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a mouse) immunized with human recombinant protein of Cardiotrophin-1.

Target Background

Synonyms (Target):	CTF1; CT1; CT-1
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Cardiotrophin1 (CT1) is a member of the cytokine family which also includes IL6, IL11, 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. CT1 has since been shown to be a pleiotrophic cytokine with overlapping actions with other IL6 family members on a variety of cell types. Human CT1 encodes a 201 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 CT1 share 80% as sequence identity and exhibit crossspecies activity. CT1 is highly expressed in heart, skeletal muscle, liver, lung and kidney. Lower levels of CT1 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 been implicated in the receptor complex.

Database References Target

Protein RefSeq:	NP_001321
Uniprot ID:	Q16619
mRNA RefSeq:	NM_001330

Product Specifications

Host	Mouse
Reactivity against	Human
Clonality	Monoclonal Antibody
Clone	(#16B9)
Isotype	IgG1
Purification	Protein G chromatography
Antigen	recombinant human Cardiotrophin-1
Formulation	lyophilized
Reconstitution buffer	PBS (sterile)

Reconstitution: Reconstitute the antibody with 200 μ l sterile PBS and the final concentration is 500 μ g/ml.

Stability: Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C. Reconstituted antibody can be aliquoted and stored frozen at < -20 °C for at least for six months without detectable loss of activity.

Remarks: This antibody was selected for its ability to detect human Cardiotrophin-1 protein.



Applications

The antibody can be used within the following applications: WB, N

Recommended usage:

Western Blot: 1:500 - 1:1000

Neutralization: Yes

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!