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(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

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

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.

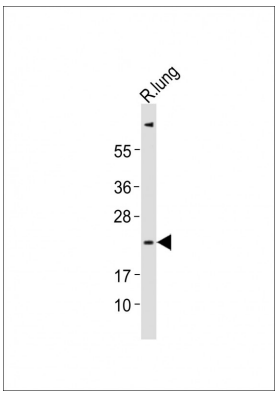
Background

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'.