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

Cardiotrophin-1 Polyclonal Antibody

Catalog # AP68821

Product Information

Application	WB, IHC-P, IF, ICC, E
Primary Accession	Q16619
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	21227

Additional Information

Gene ID	1489
Other Names	CTF1; Cardiotrophin-1; CT-1
Dilution	WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications. IHC-P~~N/A IF~~1:50~200 ICC~~N/A E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

Protein Information

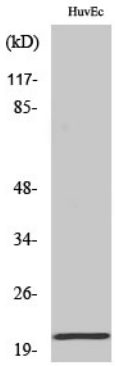
Name	CTF1 (HGNC:2499)
Function	Functions as a cytokine that binds to the LIF receptor complex (PubMed:8833032). The LIF receptor complex indeed consists of two signaling receptor subunits IL6ST/gp130 and LIFR that transduce the signal into the cell (By similarity). Functionally, acts as a potent cardiac survival factor, and promotes cardiomyocyte proliferation and hypertrophy (PubMed:8833032). 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 (By similarity). These kinases subsequently phosphorylate IL6ST/gp130 and LIFR (By similarity). The tyrosine phosphorylated signaling receptors serve in turn as docking sites for recruitment and activation of signal transducer and activator of transcription STAT3 (By similarity).
Cellular Location	Secreted.
Tissue Location	Highly expressed in heart, skeletal muscle, prostate and ovary. Lower levels in lung, kidney, pancreas, thymus, testis and small intestine. Little or no

expression in brain, placenta, liver, spleen, colon or peripheral blood leukocytes

Background

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

Images



Western Blot analysis of various cells using Cardiotrophin-1 Polyclonal Antibody

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