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TCAP Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant TCAP.
Catalog # AT4174a

Product Information

Application	WB, E
Primary Accession	O15273
Other Accession	BC012628
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 kappa
Clone Names	2B1
Calculated MW	19052

Additional Information

Gene ID	8557
Other Names	Telethonin, Titin cap protein, TCAP
Target/Specificity	TCAP (AAH12628, 1 a.a. ~ 167 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	TCAP Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

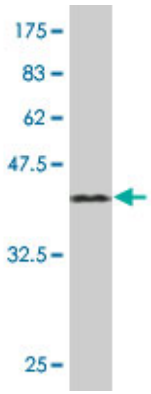
Sarcomere assembly is regulated by the muscle protein titin. Titin is a giant elastic protein with kinase activity that extends half the length of a sarcomere. It serves as a scaffold to which myofibrils and other muscle related proteins are attached. This gene encodes a protein found in striated and cardiac muscle that binds to the titin Z1-Z2 domains and is a substrate of titin kinase, interactions thought to be critical to sarcomere assembly. Mutations in this gene are associated with limb-girdle muscular dystrophy type 2G.

References

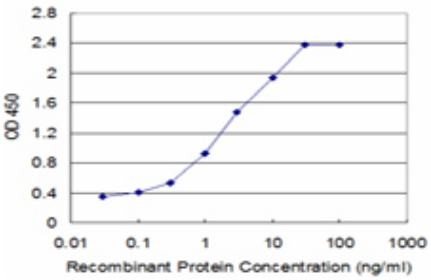
Physiogenomic analysis of statin-treated patients: domain-specific counter effects within the ACACB gene on low-density lipoprotein cholesterol? Rua?o G, et al. Pharmacogenomics, 2010 Jul. PMID 20602615.A novel

custom resequencing array for dilated cardiomyopathy. Zimmerman RS, et al. Genet Med, 2010 May. PMID 20474083.Common susceptibility variants examined for association with dilated cardiomyopathy. Rampersaud E, et al. Ann Hum Genet, 2010 Mar. PMID 20201937.The role of Lamin A/C mutations in Danish patients with idiopathic dilated cardiomyopathy. M?ller DV, et al. Eur J Heart Fail, 2009 Nov. PMID 19875404.Depletion of zebrafish Tcap leads to muscular dystrophy via disrupting sarcomere-membrane interaction, not sarcomere assembly. Zhang R, et al. Hum Mol Genet, 2009 Nov 1. PMID 19679566.

Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (44.11 KDa) .



Detection limit for recombinant GST tagged TCAP is approximately 0.1ng/ml as a capture antibody.

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