

SGCB Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant SGCB.

Catalog # AT3853a

Product Information

Application	WB, IHC, IF, E
Primary Accession	Q16585
Other Accession	NM_000232
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	1C10
Calculated MW	34777

Additional Information

Gene ID	6443
Other Names	Beta-sarcoglycan, Beta-SG, 43 kDa dystrophin-associated glycoprotein, 43DAG, A3b, SGCB
Target/Specificity	SGCB (NP_000223, 87 a.a. ~ 196 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 IF~~1:50~200 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	SGCB Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

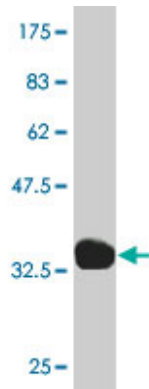
This gene encodes a member of the sarcoglycan family. Sarcoglycans are transmembrane components in the dystrophin-glycoprotein complex which help stabilize the muscle fiber membranes and link the muscle cytoskeleton to the extracellular matrix. Mutations in this gene have been associated with limb-girdle muscular dystrophy.

References

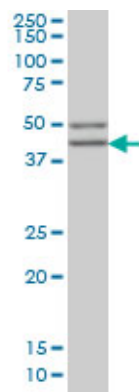
Sarcoglycanopathies: can muscle immunoanalysis predict the genotype? Klinge L, et al. Neuromuscul Disord, 2008 Dec. PMID 18996010. Expression of the dystrophin-glycoprotein complex is a marker for human airway

smooth muscle phenotype maturation. Sharma P, et al. Am J Physiol Lung Cell Mol Physiol, 2008 Jan. PMID 17993586. The beta-delta-core of sarcoglycan is essential for deposition at the plasma membrane. Draviam RA, et al. Muscle Nerve, 2006 Dec. PMID 17036316. Muscle protein analysis in the detection of heterozygotes for recessive limb girdle muscular dystrophy type 2B and 2E. Fanin M, et al. Neuromuscul Disord, 2006 Nov. PMID 16934466. Homozygous microdeletion of chromosome 4q11-q12 causes severe limb-girdle muscular dystrophy type 2E with joint hyperlaxity and contractures. Kaindl AM, et al. Hum Mutat, 2005 Sep. PMID 16088906.

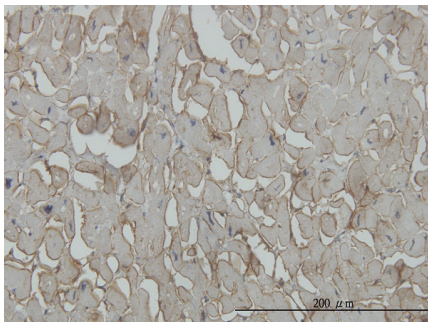
Images



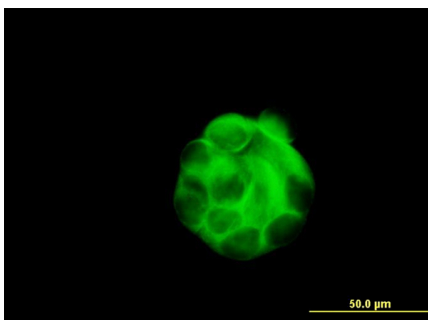
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 kDa) .



SGCB monoclonal antibody (M02), clone 1C10 Western Blot analysis of SGCB expression in MCF-7 (Cat # AT3853a)

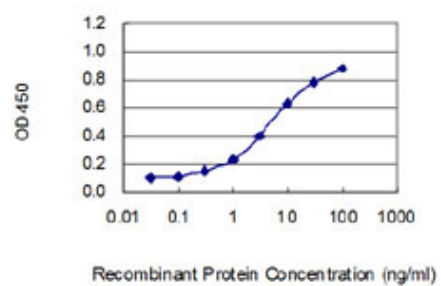


Immunoperoxidase of monoclonal antibody to SGCB on formalin-fixed paraffin-embedded human heart. [antibody concentration 3 ug/ml]



Immunofluorescence of monoclonal antibody to SGCB on MCF-7 cell . [antibody concentration 10 ug/ml]

Detection limit for recombinant GST tagged SGCB is 0.1



ng/ml as a capture antibody.

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