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

SGCA Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant SGCA.
Catalog # AT3851a

Product Information

Application	WB, E
Primary Accession	Q16586
Other Accession	NM_000023
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2b Kappa
Clone Names	3C4
Calculated MW	42875

Additional Information

Gene ID	6442
Other Names	Alpha-sarcoglycan, Alpha-SG, 50 kDa dystrophin-associated glycoprotein, 50DAG, Adhalin, Dystroglycan-2, SGCA, ADL, DAG2
Target/Specificity	SGCA (NP_000014.1, 26 a.a. ~ 133 a.a) partial 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	SGCA Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

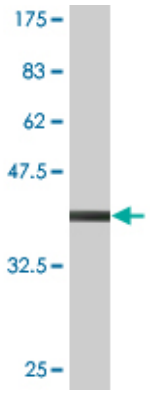
This gene encodes a component of the dystrophin-glycoprotein complex (DGC), which is critical to the stability of muscle fiber membranes and to the linking of the actin cytoskeleton to the extracellular matrix. Its expression is thought to be restricted to striated muscle. Mutations in this gene result in type 2D autosomal recessive limb-girdle muscular dystrophy. Multiple transcript variants encoding different isoforms have been found for this gene.

References

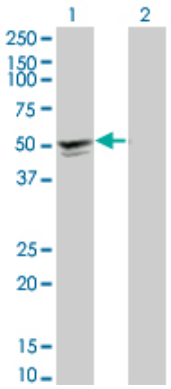
Mice lacking dystrophin or alpha sarcoglycan spontaneously develop embryonal rhabdomyosarcoma with

cancer-associated p53 mutations and alternatively spliced or mutant Mdm2 transcripts. Fernandez K, et al. Am J Pathol, 2010 Jan. PMID 20019182.Sarcoglycanopathies: can muscle immunoanalysis predict the genotype? Klinge L, et al. Neuromuscul Disord, 2008 Dec. PMID 18996010.Identification of two E-boxes that negatively modulate the activity of MyoD on the alpha-sarcoglycan core promoter. Delgado-Olgu?n P, et al. Biochim Biophys Acta, 2008 Jan. PMID 18078839.Biglycan binds to alpha- and gamma-sarcoglycan and regulates their expression during development. Rafii MS, et al. J Cell Physiol, 2006 Nov. PMID 16883602.Sarcoglycanopathies and the risk of undetected deletion alleles in diagnosis. White SJ, et al. Hum Mutat, 2005 Jul. PMID 15954112.

Images

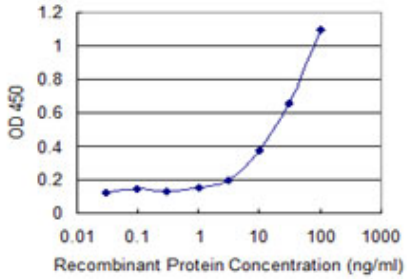


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.62 KDa) .



Western Blot analysis of SGCA expression in transfected 293T cell line by SGCA monoclonal antibody (M01), clone 3C4.

Lane 1: SGCA transfected lysate(42.9 KDa).
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged SGCA is 1 ng/ml as a capture antibody.

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