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SGCA Antibody (monoclonal) (M01)

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

Specification

SGCA Antibody (monoclonal) (M01) - Product Information

Application	**WB, E**
Primary Accession	Q16586
Other Accession	NM_000023
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2b Kappa**
Calculated MW	**42875**

SGCA Antibody (monoclonal) (M01) - 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.

SGCA Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides

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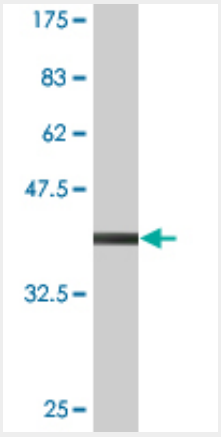
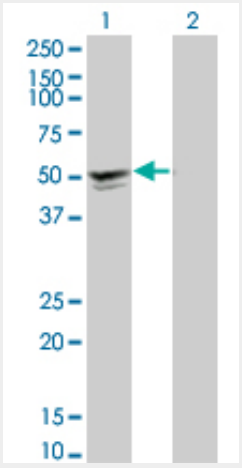
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SGCA Antibody (monoclonal) (M01) - 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.

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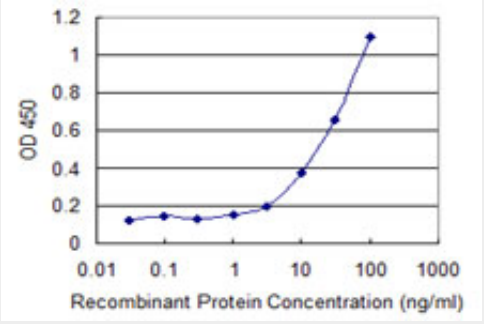

Detection limit for recombinant GST tagged SGCA is 1 ng/ml as a capture antibody.

SGCA Antibody (monoclonal) (M01) - 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.

SGCA Antibody (monoclonal) (M01) - 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.