

Recombinant Human SGCA

Cat. No. SGCA-27337TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human alpha Sarcoglycan with an N terminal proprietary tag. Predicted MW 37.51kDa.
Species	Human
Source	Wheat Germ
ProteinLength	108 amino acids
Description	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.
Molecular Weight	37.510kDa inclusive of tags
Tissue specificity	Most strongly expressed in skeletal muscle. Also expressed in cardiac muscle and, at much lower levels, in lung. In the fetus, most abundant in cardiac muscle and, at lower levels, in lung. Also detected in liver and kidney. Not expressed in brain.
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	TTLHPLVGRVVFVHTLDHETFLSLPEHVAVPPAVHITYHAH LQGHPDLPRWLRYTQR SPHHPGFLYGSATPEDRGLQVIEV TAYNRDSFDTTRQRLVLEIGDPEGPLLP
Sequence Similarities	Belongs to the sarcoglycan alpha/epsilon family.

GENE INFORMATION

Gene Name	SGCA sarcoglycan, alpha (50kDa dystrophin-associated glycoprotein) [Homo sapiens]
Official Symbol	SGCA
Synonyms	SGCA; sarcoglycan, alpha (50kDa dystrophin-associated glycoprotein); ADL, sarcoglycan, alpha (50kD dystrophin associated glycoprotein); alpha-sarcoglycan; 50kD DAG; A2; adhalin; adhalin (limb girdle muscular dystrophy 2D); DMDA2; LGMD2D; Sarcoglycan; alp
Gene ID	6442
mRNA Refseq	NM_001135697
Protein Refseq	NP_001129169
MIM	600119

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Uniprot ID	Q16586
Chromosome Location	17q21
Pathway	Arrhythmogenic right ventricular cardiomyopathy (ARVC), organism-specific biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), conserved biosystem; Dilated cardiomyopathy, organism-specific biosystem; Dilated cardiomyopathy, conserved biosystem; Hypertrophic cardiomyopathy (HCM), organism-specific biosystem;
Function	calcium ion binding;

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