

Anti-SGCA Picoband Antibody

Catalog # ABO12191

Product Information

Application	WB
Primary Accession	Q16586
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Alpha-sarcoglycan(SGCA) detection. Tested with WB in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	6442
Other Names	Alpha-sarcoglycan, Alpha-SG, 50 kDa dystrophin-associated glycoprotein, 50DAG, Adhalin, Dystroglycan-2, SGCA, ADL, DAG2
Calculated MW	42875
Application Details	Western blot, 0.1-0.5 µg/ml, Mouse, Rat, Human
Subcellular Localization	Cell membrane, sarcolemma ; Single-pass type I membrane protein . Cytoplasm, cytoskeleton .
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.
Source	Eukaryota
Protein Name	Alpha-sarcoglycan
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	E.coli-derived human SGCA recombinant protein (Position: Q24-H387). Human SGCA shares 90.7% amino acid (aa) sequence identity with mouse SGCA.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins

Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the sarcoglycan alpha/epsilon family.

Protein Information

Name	SGCA
Synonyms	ADL, DAG2
Function	Component of the sarcoglycan complex, a subcomplex of the dystrophin-glycoprotein complex which forms a link between the F-actin cytoskeleton and the extracellular matrix.
Cellular Location	Cell membrane, sarcolemma; Single-pass type I membrane protein. Cytoplasm, cytoskeleton
Tissue Location	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

Background

Alpha-sarcoglycan is a protein that in humans is encoded by the SGCA gene. 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.

Images



Anti- SGCA Picoband antibody, ABO12191, Western blotting
 All lanes: Anti SGCA (ABO12191) at 0.5ug/ml
 Lane 1: Rat Skeletal Muscle Tissue Lysate at 50ug
 Lane 2: Mouse Skeletal Muscle Tissue Lysate at 50ug
 Predicted bind size: 43KD
 Observed bind size: 43KD

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