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# delta Sarcoglycan Rabbit pAb

delta Sarcoglycan Rabbit pAb
Catalog # AP55493

## Product Information

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| **Application** | IHC-P, IHC-F, IF, E |
| **Primary Accession** | Q92629 |
| **Predicted** | Human, Mouse, Rat, Pig, Rabbit, Sheep |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 32071 |
| **Physical State** | Liquid |
| **Immunogen** | KLH conjugated synthetic peptide derived from human delta Sarcoglycan |
| **Epitope Specificity** | 51-150/289 |
| **Isotype** | IgG |
| **Purity** | affinity purified by Protein A |
| **Buffer** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. |
| **SUBCELLULAR LOCATION** | Cell membrane > sarcolemma. Cytoplasm > cytoskelet |
| **SIMILARITY** | Belongs to the sarcoglycan beta/delta/gamma/zeta family. |
| **Post-translational modifications** | Glycosylated. Disulfide bonds are present. |
| **DISEASE** | Defects in SGCD are the cause of limb-girdle muscular dystrophy type 2F (LGMD2F) [MIM:601287]. LGMD2F is an autosomal recessive disorder. Defects in SGCD are the cause of cardiomyopathy dilated type 1L (CMD1L) [MIM:606685]. Dilated cardiomyopathy is a disorder characterized by ventricular dilation and impaired systolic function, resulting in congestive heart failure and arrhythmia. Patients are at risk of premature death. |
| **Important Note** | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| **Background Descriptions** | The protein encoded by this gene is one of the four known components of the sarcoglycan complex, which is a subcomplex of the dystrophin-glycoprotein complex (DGC). DGC forms a link between the F-actin cytoskeleton and the extracellular matrix. This protein is expressed most abundantly in skeletal and cardiac muscle. Mutations in this gene have been associated with autosomal recessive limb-girdle muscular dystrophy and dilated cardiomyopathy. Alternatively spliced transcript variants encoding distinct isoforms have been observed for this gene. [provided by RefSeq, Jul 2008] |

## Additional Information

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| **Gene ID** | 6444 |
| **Other Names** | Delta-sarcoglycan, Delta-SG, 35 kDa dystrophin-associated glycoprotein, 35DAG, SGCD |
| **Target/Specificity** | Most strongly expressed in skeletal and cardiac muscle. Also detected in |

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| | smooth muscle. Weak expression in brain and lung. |
| **Dilution** | IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000 |
| **Storage** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |

## Protein Information

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| **Name** | SGCD |
| **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 II membrane protein. Cytoplasm, cytoskeleton |
| **Tissue Location** | Most strongly expressed in skeletal and cardiac muscle. Also detected in smooth muscle. Weak expression in brain and lung |

## Background

The protein encoded by this gene is one of the four known components of the sarcoglycan complex, which is a subcomplex of the dystrophin-glycoprotein complex (DGC). DGC forms a link between the F-actin cytoskeleton and the extracellular matrix. This protein is expressed most abundantly in skeletal and cardiac muscle. Mutations in this gene have been associated with autosomal recessive limb-girdle muscular dystrophy and dilated cardiomyopathy. Alternatively spliced transcript variants encoding distinct isoforms have been observed for this gene. [provided by RefSeq, Jul 2008]