SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-gamma Sarcoglycan antibody

Catalog Number: SL16231R

FOR RESEARCH USE ONLY

[DATASHEET]

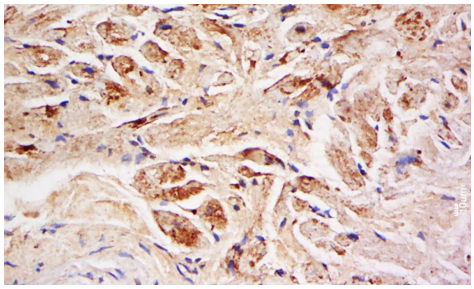
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	gamma Sarcoglycan
Immunogen:	KLH conjugated synthetic peptide derived from human gamma Sarcoglycan: 151-250/291
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Rat(predicted:Human,Mouse,Dog,Pig,Cow,Sheep)
Predicted MW.:	32kDa
Subcellular Location:	The cell membrane
Background:	This gene encodes gamma-sarcoglycan, one of several sarcolemmal transmembrane glycoproteins that interact with dystrophin. The dystrophin-glycoprotein complex (DGC) spans the sarcolemma and is comprised of dystrophin, syntrophin, alpha- and beta-dystroglycans and sarcoglycans. The DGC provides a structural link between the subsarcolemmal cytoskeleton and the extracellular matrix of muscle cells. Defects in the encoded protein can lead to early onset autosomal recessive muscular dystrophy, in particular limb-girdle muscular dystrophy, type 2C (LGMD2C). [provided by RefSeq, Oct 2008] **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.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	Subunit: Interacts with the syntrophin SNTA1. Cross-link to form 2 major subcomplexes: one consisting of SGCB, SGCD and SGCG and the other consisting of SGCB and SGCD. The association between SGCB and SGCG is particularly strong while SGCA is loosely associated with the other sarcoglycans (By similarity). Interacts with FLNC. **Subcellular Location:** Cell membrane; sarcolemma. Cytoplasm > cytoskeleton. **Tissue Specificity:** Expressed in skeletal and heart muscle. DISEASE: Defects in SGCG are the cause of limb-girdle muscular dystrophy type 2C (LGMD2C) [MIM:253700]. LGMD2C is characterized by progressive muscle wasting from early childhood. **Similarity:** Belongs to the sarcoglycan beta/delta/gamma/zeta family. **Database links:** **Entrez Gene:** 6445 Human Omim: 608896 Human **SwissProt:** Q13326 Human **Unigene:** 37167 Human

[VALIDATION IMAGES]



Tissue/cell: Rat myocardium tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;
Incubation: Anti-SGCG Polyclonal Antibody, Unconjugated(SL16231R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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