



# Sarcoglycan- $\beta$ Monoclonal Antibody

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| <b>Catalog No</b>                  | YP-mAb-03186                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Isotype</b>                     | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Reactivity</b>                  | Human;Mouse;Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Applications</b>                | WB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Gene Name</b>                   | SGCB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Immunogen</b>                   | The antiserum was produced against synthesized peptide derived from human Sarcoglycan-beta. AA range:87-136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Specificity</b>                 | Sarcoglycan- $\beta$ Monoclonal Antibody detects endogenous levels of Sarcoglycan- $\beta$ protein.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Formulation</b>                 | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>                      | Monoclonal, Mouse,IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Purification</b>                | The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Dilution</b>                    | WB 1:500-1:2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Concentration</b>               | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Purity</b>                      | $\geq 90\%$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Storage Stability</b>           | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>                    | Sarcoglycan- $\beta$ ;SGCB;Beta-sarcoglycan;Beta-SG;43 kDa dystrophin-associated glycoprotein;43DAG;A3b                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Observed Band</b>               | 43kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Calculated Molecular Weight</b> | 43kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Cell Pathway</b>                | Cell membrane, sarcolemma ; Single-pass type II membrane protein .<br>Cytoplasm, cytoskeleton .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Tissue Specificity</b>          | Highest expression in heart and skeletal muscle. Low expression in brain, kidney, placenta, pancreas and lung. High expression in fetal brain. Also found in fetal lung, kidney and liver.                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Function</b>                    | disease:Defects in SGCB are the cause of limb-girdle muscular dystrophy type 2E (LGMD2E) [MIM:604286]. LGMD2E is an autosomal recessive disorder.,<br>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.,online information:SGCB mutations in LGMD2E,PTM:Disulfide bonds are present.,similarity:Belongs to the sarcoglycan beta/delta/gamma/zeta family.,subunit: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.,tissue specificity: Highest expression in heart and skeletal muscle. Low expression in brain, kidney, placenta, pancreas and lung. High expression in fetal brain. Also found in

#### Background

This gene encodes a member of the sarcoglycan family. Sarcoglycans are transmembrane components in the dystrophin-glycoprotein complex which help stabilize the muscle fiber membranes and link the muscle cytoskeleton to the extracellular matrix. Mutations in this gene have been associated with limb-girdle muscular dystrophy.[provided by RefSeq, Oct 2008],

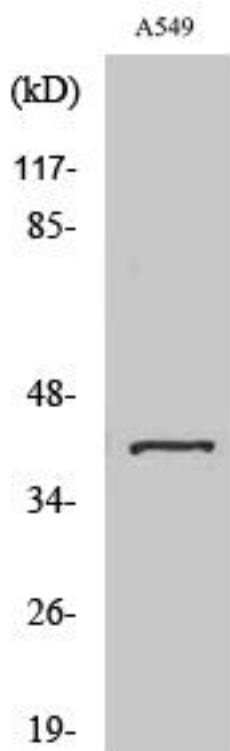
#### matters needing attention

Avoid repeated freezing and thawing!

#### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

### Products Images



Western Blot analysis of various cells using Sarcoglycan-β Monoclonal Antibody