

## Rabbit Sarcoglycan-beta Polyclonal Antibody | anti-SGCB antibody

Sarcoglycan-beta Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                              |
|-----------|--------|-------------------|-------------------------------------------|
| AAA327546 | Rabbit | Human, Mouse, Rat | ELISA, Immunohistochemistry, Western Blot |

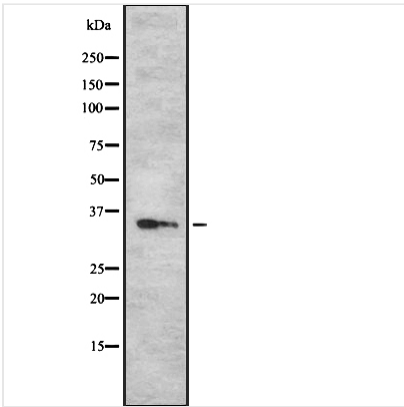
### PRODUCT SYNONYMS

Sarcoglycan-beta; Polyclonal Antibody; Sarcoglycan-beta Antibody; 43 kDa dystrophin associated glycoprotein; 43 kDa dystrophin-associated glycoprotein; 43DAG; A3b; Beta SG; Beta-sarcoglycan; Beta-SG; dystrophin-associated glycoprotein; 43-kD; LGMD2E; Limb girdle muscular dystrophy 2E (non linked families); Sarcoglycan beta; sarcoglycan; beta (43kDa dystrophin-associated glycoprotein); SGC; SGCB; SGCB\_HUMAN; anti-SGCB antibody

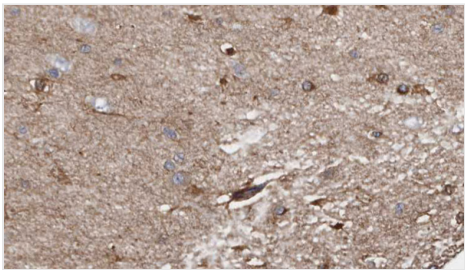
### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                               |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                        |
| Reactivity                                     | Human, Mouse, Rat                                                                                                                                                                             |
| Clonality                                      | Polyclonal                                                                                                                                                                                    |
| Isotype                                        | IgG                                                                                                                                                                                           |
| Specificity                                    | Sarcoglycan-beta antibody detects endogenous levels of total Sarcoglycan-beta                                                                                                                 |
| Purity/Purification                            | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.                                                                                                 |
| Form/Format                                    | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                                                                 |
| Concentration                                  | 1mg/ml (varies by lot)                                                                                                                                                                        |
| Sequence Length                                | 318                                                                                                                                                                                           |
| Applicable Applications for anti-SGCB antibody | ELISA, IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                          |
| Immunogen                                      | A synthesized peptide derived from human Sarcoglycan-beta                                                                                                                                     |
| Subcellular Location                           | Cell Membrane, Sarcolemma. Cytoplasm, Cytoskeleton.                                                                                                                                           |
| Tissue Specificity                             | Highest expression in heart and skeletal muscle. Low expression in brain, kidney, placenta, pancreas and lung.<br>High expression in fetal brain. Also found in fetal lung, kidney and liver. |
| Predicted Cross Reactivity                     | <b>Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus</b>                                                                                                                    |
| Similarity                                     | Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)                                                            |
| Conjugation                                    | Unconjugated                                                                                                                                                                                  |
| Preparation and Storage                        | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                                                                             |

IMAGES



**WB (Western Blot)**  
Western blot analysis Sarcoglycan-beta using Jurkat whole cell lysates



**IHC (Immunohistochemistry)**  
AAA327546 at 1/100 staining Human brain cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-SGCB antibody</b> | <p>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.</p> <p>Subunit Structure: 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).</p> <p>Post-translational Modifications: Disulfide bonds are present.</p> <p>Similarity: Belongs to the sarcoglycan beta/delta/gamma/zeta family.</p> |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                       |
|----------------------------------|---------------------------------------|
| NCBI GI #                        | 4506913                               |
| NCBI GeneID                      | 6443                                  |
| NCBI Accession #                 | NP_000223.1                           |
| NCBI GenBank Nucleotide #        | NM_000232.4                           |
| UniProt Accession #              | Q16585; O00661; B7Z635                |
| Molecular Weight                 | Observed: 34 kDa<br>Predicted: 35 kDa |
| NCBI Official Full Name          | beta-sarcoglycan                      |
| NCBI Official Synonym Full Names | sarcoglycan beta                      |
| NCBI Official Symbol             | SGCB                                  |
| NCBI Official Synonym Symbols    | A3b; SGC; LGMD2E; LGMDR4              |
| NCBI Protein Information         | beta-sarcoglycan                      |
| UniProt Protein Name             | Beta-sarcoglycan                      |
| UniProt Gene Name                | <b>SGCB</b>                           |
| UniProt Synonym Gene Names       | Beta-SG; 43DAG                        |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.