Human α-Sarcoglycan Antibody

Monoclonal Mouse IgG_1 Clone # 769109

Catalog Number: MAB7445

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human α-Sarcoglycan in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG_1 Clone # 769109
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human α-Sarcoglycan Gln24-Ala290 (predicted) Accession # Q16586
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μm filtered solution in PBS.

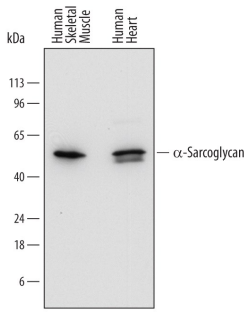
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA

Western Blot



Detection of Human α-Sarcoglycan by Western Blot. Western blot shows lysates of human skeletal muscle tissue and human heart tissue. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human α-Sarcoglycan Monoclonal Antibody (Catalog # MAB7445) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for α-Sarcoglycan at approximately 50 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Alpha-sarcoglycan is one of six known sarcoglycans, which are type I (α- and ε-) or type II (β-, γ-, δ- or ζ-) transmembrane glycoproteins. Sarcoglycans α and γ are expressed exclusively in the sarcoplasmic reticulum in skeletal and cardiac muscle, while others are more widely expressed. Sarcoglycans form heterotetrameric, pentameric and hexameric membrane glycoprotein complexes (SGC). SGC interacts laterally with the dystroglycan complex, and both complexes are components of the dystrophin-associated glycoprotein complex (DGC), which forms a link between the cytoskeleton and the extracellular matrix. Mutations in sarcoglycans are associated with recessive autosomally inherited limb-girdle muscular dystrophy. Human α-sarcoglycan shares 90% amino acid sequence identity with mouse and rat α-sarcoglycan within the extracellular domain.

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