

Mouse Anti-Sarcoglycan Beta/SGCB [RO17]: MC0234

Intended Use: For Research Use Only

Description: The sarcoglycan transmembrane proteins are members of the dystrophin complex. Sarcoglycans cluster together to form a complex, which is localized in the cell membrane of skeletal, cardiac, and smooth muscle fibers. Four sarcoglycan subunit proteins, designated α -, β -, γ - and δ -sarcoglycan, form a complex on the skeletal muscle cell surface membrane. A genetic defect in any one of these proteins causes the loss or marked decrease of the whole sarcoglycan complex, which is observed in the autosomal recessive muscular dystrophy, sarcoglycanopathy. In smooth muscle, β - and δ -sarcoglycans are associated with ϵ -sarcoglycan, a glycoprotein homologous to α -sarcoglycan. Additionally, a complete deficiency in δ -sarcoglycan is the cause of the Syrian hamster BIO.14 cardiomyopathy.

Specifications

Clone: RO17
 Source: Mouse
 Isotype: IgG2a/ κ
 Reactivity: Human, mouse, rat
 Localization: Membrane, cytoplasm
 Formulation: Antibody in PBS pH7.4, containing glycerol BSA and $\leq 0.09\%$ sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC, ELISA, ICC/IF, IP, WB
 Package:

Description	Catalog No.	Size
Sarcoglycan Beta/SGCB Concentrated	MC0234	1 ml

IHC Procedure*

Positive Control Tissue: Pancreas, stomach
 Concentrated Dilution: 50-500
 Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
 Incubation Time and Temp: 30-60 minutes @ RT
 Detection: Refer to the detection system manual
 * Result should be confirmed by an established diagnostic procedure.



FFPE human heart tissue stained with anti-SGCB using DAB showing membrane and cytoplasmic staining

References:

1. Immunohistochemistry of sarcolemmal membrane-associated proteins in formalin-fixed and paraffin-embedded skeletal muscle tissue: a promising tool for the diagnostic evaluation of common muscular dystrophies. Suriyonplengsaeng C et al. Diagn Pathol. 2017.
2. Sarcolemmal deficiency of sarcoglycan complex in an 18-month-old Turkish boy with a large deletion in the beta sarcoglycan gene. Diniz G et al. Balkan J Med Genet. 2015.
3. Muscular dystrophy with reduced beta-sarcoglycan in a cat. Salvadori C et al. J Comp Pathol. 2009.