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32-6222: Mouse Anti Human Syntrophin, Alpha 1(Clone:PAT1E1A)

Clonality :	Monoclonal
Clone Name :	PAT1E1A
Application :	ELISA,WB
Gene :	SCN5A
Gene ID :	6331
Uniprot ID :	Q14524
Format :	Purified
Alternative Name :	Alpha-1-syntrophin,59 kDa dystrophin-associated protein A1 acidic component 1,Pro-TGF-alpha cytoplasmic domain-interacting protein 1,TACIP1,Syntrophin-1,SNTA1,SNT1,LQT12,dJ1187J4.5.
Isotype :	Mouse IgG2b heavy chain and Kappa light chain.
Immunogen Information :	Anti-human SNTA1 mAb, clone PAT1E1A, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human SNTA1 protein 1-505 amino acids purified from E. coli.

Description

SNTA1 is a member of the syntrophin gene family. SNTA1 is a peripheral membrane protein found linked with dystrophin and dystrophin-related proteins. Dystrophin is a large, rod-like cytoskeletal protein located at the inner surface of muscle fibers. Dystrophin is absent in Duchenne Muscular Dystrophy patients, however it is present in reduced amounts in Becker Muscular Dystrophy patients. Syntrophins are cytoplasmic peripheral membrane scaffold proteins and components of the dystrophin-associated protein complex. The N-terminal PDZ domain of SNTA1 interacts with the C-terminus of the pore-forming alpha subunit (SCN5A) of the cardiac sodium channel Nav1.5. In addition, SNTA1 associates cardiac sodium channels with the nitric oxide synthase-PMCA4b (plasma membrane Ca-ATPase subtype 4b) complex in cardiomyocytes. The SNTA1 gene is a predisposition locus for Long-QT syndrome (LQT) - an inherited disorder associated with sudden cardiac death from arrhythmia - and sudden infant death syndrome (SIDS). SNTA1 also associates with dystrophin and dystrophin-related proteins at the neuromuscular junction and modifies intracellular calcium ion levels in muscle tissue.

Product Info

Amount :	20 µg
Content :	1mg/ml containing PBS, pH-7.4, 10% Glycerol and 0.02% Sodium Azide.
Storage condition :	For periods up to 1 month store at 4°C, for longer periods of time, store at -20°C. Prevent freeze thaw cycles.

Application Note

The antibody has been tested by ELISA, Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended starting dilution is 1:1000.