abcam

Product datasheet

Anti-Syntrophin alpha 1 antibody ab5941

1 References 1 图像

概述

产品名称	Anti-Syntrophin alpha 1抗体
描述	**山羊多克隆抗体**to Syntrophin alpha 1
宿主	Goat
经测试应用	**适用于:** WB
种属反应性	**与反应:** Human **预测可用于:** Mouse, Rabbit
免疫原	Synthetic peptide: ASGRRAPRTGLLE, corresponding to N terminal amino acids 2-14 of Human Syntrophin alpha 1. Run BLAST with ExPASy Run BLAST with NCBI
阳性对照	Human Heart Lysate.
常规说明	GenBank Accession Number – NP_003089

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
存储溶液	Preservative: 0.02% Sodium Azide Constituents: 0.5% BSA, Tris-saline. pH 7.3
纯度	Immunogen affinity purified
纯化说明	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
克隆	**多克隆**
同种型	IgG

应用

Our Abpromise guarantee covers the use of **ab5941** in the following tested applications.

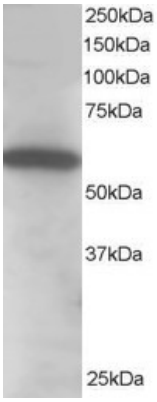
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab 评论	说明
WB		Use a concentration of 0.1 - 0.5 µg/ml. Detects a band of approximately 60 kDa (predicted molecular weight: 58 kDa).Can be blocked with Human Syntrophin alpha 1 peptide (ab23124).

靶标

功能	Adapter protein that binds to and probably organizes the subcellular localization of a variety of membrane proteins. May link various receptors to the actin cytoskeleton and the extracellular matrix via the dystrophin glycoprotein complex. Plays an important role in synapse formation and in the organization of UTRN and acetylcholine receptors at the neuromuscular synapse. Binds to phosphatidylinositol 4,5-biphosphate.
组织特异性	High expression in skeletal muscle and heart. Low expression in brain, pancreas, liver, kidney and lung. Not detected in placenta.
疾病相关	Defects in SNTA1 are the cause of long QT syndrome type 12 (LQT12) [MIM:612955]. A heart disorder characterized by a prolonged QT interval on the ECG and polymorphic ventricular arrhythmias. They cause syncope and sudden death in response to excercise or emotional stress, and can present with a sentinel event of sudden cardiac death in infancy.
序列相似性	Belongs to the syntrophin family. Contains 1 PDZ (DHR) domain. Contains 2 PH domains. Contains 1 SU (syntrophin unique) domain.
结构域	The PH 1 domain mediates the oligomerization in a calcium dependent manner, and the association with the phosphatidylinositol 4,5-biphosphate. The PDZ domain binds to the last three or four amino acids of ion channels and receptor proteins. The association with dystrophin or related proteins probably leaves the PDZ domain available to recruit proteins to the membrane. The SU domain binds calmodulin in a calcium-dependent manner.
翻译后修饰	Phosphorylated by CaM-kinase II. Phosphorylation may inhibit the interaction with DMD.
细胞定位	Cell membrane > sarcolemma. Cell junction. Cytoplasm > cytoskeleton. In skeletal muscle, it localizes at the cytoplasmic side of the sarcolemmal membrane and at neuromuscular junctions.

图片



Western blot - Anti-Syntrophin alpha 1 antibody (ab5941)

ab5941 at 0.1µg/ml staining Syntrophin alpha 1 at approximately 60kDa in Human Heart Lysate by Western blot (ECL).

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