

扩张型心肌病蛋白 1G 抗体

产品货号: mlR9861

英文名称 Titin/CMD1G

中文名称扩张型心肌病蛋白 1G 抗体

知 名 TTN; MPRM; Cardiomyopathy dilated 1G (autosomal dominant); CMD1G; CMH 9; CMH9; CMPD 4; CMPD4; Connectin; DKFZp451N061; EOMFC; HMERF; LGMD2J; MU RMS 40.14; Rhabdomyosarcoma antigen; Rhabdomyosarcoma antigen MU RMS 40.14; Rhabdomyosarcoma antigen MU-RMS-40.14; TITIN_HUMAN; TMD.

研究领域心血管 信号转导 表观遗传学

抗体来源 Rabbit

克隆类型 Polyclonal

交叉反应 Human, Mouse, Rat, Pig, Cow,

产品应用 ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 Flow-Cyt=1ug/test IF=1:50-200 (石蜡切片需做抗原修复)

not yet tested in other applications.

optimal dilutions/concentrations should be determined by the end user.

分子量3780kDa

细胞定位细胞核 细胞浆

性 状 Lyophilized or Liquid

浓 度 1mg/ml

免疫原KLH conjugated synthetic peptide derived from human Titin/CMD1G:2601-2800



亚 型 IgG

纯化方法 affinity purified by Protein A

储存液 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

保存条件 Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

PubMedPubMed

产品介绍 Titin, also known as connectin, is a large protein involved in the temporal and spatial control of the assembly of the highly ordered sarcomeres (contractile units) of striated muscle. In addition to sarcomere assembly Titin also functions to maintain the structural integrity of the contracting myofibrils within the muscle and to organize the machinery for condensation of chromosomes in dividing cells. Titin is a giant protein composed of 27,000 amino acids and contains an autoregulated serine kinase catalytic domain as well as a calcium/calmodulin binding region that are involved in its activation. Activated Titin phosphorylates the muscle protein telethonin, a sarcomeric protein abundant in heart and skeletal muscle, implicating Titin activity in the reorganization of the cytoskeleton during myofibrillogenesis.

Function:

Key component in the assembly and functioning of vertebrate striated muscles. By providing connections at the level of individual microfilaments, it contributes to the fine balance of forces between the two halves of the sarcomere. The size and extensibility of the cross-links are the main determinants of sarcomere extensibility properties of muscle. In non-muscle cells, seems to play a role in chromosome condensation and chromosome segregation during mitosis. Might link the lamina network to chromatin or nuclear actin, or both during interphase.

Subunit:

Interacts with MYOM1, MYOM2, tropomyosin and myosin. Interacts with actin, primarily via the PEVK domains and with MYPN (By similarity). Interacts with FHL2, NEB, CRYAB, LMNA/lamin-A and LMNB/lamin-B. Interacts with TCAP/telethonin and/or ANK1 isoform Mu17/ank1.5, via the first two N-terminal immunoglobulin domains.



Contains 15 WD repeats.

Interacts with TRIM63 and TRIM55, through several domains including immunoglobulin domains 141 and 142. Interacts with ANKRD1, ANKRD2 and ANKRD23, via the region between immunoglobulin domains 77 and 78 and interacts with CAPN3, via immunoglobulin domain 79. Interacts with NBR1 through the protein kinase domain. Interacts with CALM/calmodulin. Isoform 8 interacts with OBSCN isoform 3.

Subcellular Location:
Cytoplasm. Nucleus.
Tissue Specificity:
Isoform 3, isoform 7 and isoform 8 are expressed in cardiac muscle. Isoform 4 is expressed in vertebrate skeleta
muscle. Isoform 6 is expressed in cardiac tissues.
Post-translational modifications:
Autophosphorylated. Phosphorylated upon DNA damage, probably by ATM or ATR.
Similarity:
Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family.
Contains 132 fibronectin type-III domains.
Contains 152 Ig-like (immunoglobulin-like) domains.
Contains 19 Kelch repeats.
Contains 1 protein kinase domain.
Contains 17 RCC1 repeats.
Contains 14 TPR repeats.



Q8WZ42

Gene ID:

7273

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

产品图片

