abcam

Product datasheet

Recombinant Human Tropomyosin 2 protein ab103503

1 图像

描述

产品名称	重组人Tropomyosin 2蛋白
纯度	> 90 % SDS-PAGE. ab103503 was purified by using anion-exchange chromatography (DEAE sepharose resin) and gel-filtration chromatography (Sephacryl S-200) with 20mM Tris pH 7.5, 2mM EDTA.
表达系统	Escherichia coli
Accession	P07951-2
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
序列	MGSSHHHHHHSSGLVPRGSHMDAIKKKMQMLKLDKENAIDRAEQAEADKK QAEDRCKQLEEEQQALQKKLKGTEDEVEKYSESVKEAQEKLEQAEKKATD AEADVASLNRRIQLVEEELDRAQERLATALQKLEEAEKAADESERGMKVI ENRAMKDEEKMELQEMQLKEAKHIAEDSDRKYEEVARKLVILEGELERSE ERAEVAESRARQLEEELRTMDQALKSLMASEEEYSTKEDKYEEEIKLLEE KLKEAETRAEFAERSVAKLEKTIDDLEETLASAKEENVEIHQTLDQTLLE LNNL
预测分子量	35 kDa including tags
氨基酸	1 to 284
标签	His tag N-Terminus

技术指标

Our **Abpromise guarantee** covers the use of **ab103503** in the following tested applications.

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

应用	SDS-PAGE
	Mass Spectrometry

质谱法	MALDI-TOF
形式	Liquid

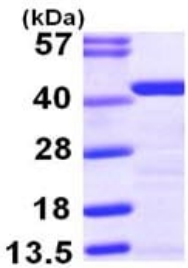
制备和贮存

稳定性和存储	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. pH: 8.00 Constituents: 0.0154% DTT, 0.316% Tris HCl, 30% Glycerol (glycerin, glycerine), 0.58% Sodium chloride

常规信息

功能	Binds to actin filaments in muscle and non-muscle cells. Plays a central role, in association with the troponin complex, in the calcium dependent regulation of vertebrate striated muscle contraction. Smooth muscle contraction is regulated by interaction with caldesmon. In non-muscle cells is implicated in stabilizing cytoskeleton actin filaments. The non-muscle isoform may have a role in agonist-mediated receptor internalization.
组织特异性	Present in primary breast cancer tissue, absent from normal breast tissue.
疾病相关	Nemaline myopathy 4 (NEM4) [MIM:609285]: A form of nemaline myopathy. Nemaline myopathies are muscular disorders characterized by muscle weakness of varying severity and onset, and abnormal thread-or rod-like structures in muscle fibers on histologic examination. Nemaline myopathy type 4 presents from infancy to childhood with hypotonia and moderate-to-severe proximal weakness with minimal or no progression. Major motor milestones are delayed but independent ambulation is usually achieved, although a wheelchair may be needed in later life. Note=The disease is caused by mutations affecting the gene represented in this entry. Arthrogryposis, distal, 1A (DA1A) [MIM:108120]: A form of distal arthrogryposis, a disease characterized by congenital joint contractures that mainly involve two or more distal parts of the limbs, in the absence of a primary neurological or muscle disease. Distal arthrogryposis type 1 is characterized largely by camptodactyly and clubfoot. Hypoplasia and/or absence of some interphalangeal creases is common. The shoulders and hips are less frequently affected. Note=The disease is caused by mutations affecting the gene represented in this entry.
序列相似性	Belongs to the tropomyosin family.
结构域	The molecule is in a coiled coil structure that is formed by 2 polypeptide chains. The sequence exhibits a prominent seven-residues periodicity.
翻译后修饰	Phosphorylated on Ser-61 by PIK3CG. Phosphorylation on Ser-61 is required for ADRB2 internalization.
细胞定位	Cytoplasm > cytoskeleton.

图片



SDS-PAGE - Recombinant Human Tropomyosin 2 protein (ab103503)

15% SDS-PAGE analysis of 3µg ab103503.

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