abcam

Product datasheet

Recombinant Human Tropomyosin 1 (alpha) protein ab99214

1 图像

描述

产品名称	重组人Tropomyosin 1 (alpha)蛋白
纯度	> 90 % SDS-PAGE. ab99214 is purified using conventional chromatography techniques.
表达系统	Escherichia coli
Accession	P09493
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
序列	MGSSHHHHHHSSGLVPRGSHMDAIKKKMQMLKLDKENALD RAEQAEADKK AAEDRSKQLEDELVSLQKKLKGTEDELDKYSEALKDAQEKLE LAEKKATD AEADVASLNRRIQLVEEELDRAQERLATALQKLEEAEKAADE SERGMKVI ESRAQKDEEKMEIQEIQLKEAKHIAEDADRKYEEVARKLVII ESDLERAE ERAELSEGQVRQLEEQLRIMDQTLKALMAAEDKYSQKEDRYE EEIKVLSD KLKEAETRAEFAERSVTKLEKSIDDLEDELYAQKLKYKAISE ELDHALND MTSM
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 **ab99214** in the following tested applications.

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

应用	Mass Spectrometry
	SDS-PAGE
质谱法	MALDI-TOF

形式	Liquid

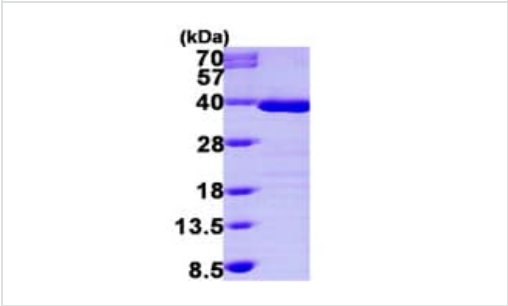
制备和贮存

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, 20% 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.
组织特异性	Detected in primary breast cancer tissues but undetectable in normal breast tissues in Sudanese patients. Isoform 1 is expressed in adult and fetal skeletal muscle and cardiac tissues, with higher expression levels in the cardiac tissues. Isoform 10 is expressed in adult and fetal cardiac tissues, but not in skeletal muscle.
疾病相关	Defects in TPM1 are the cause of cardiomyopathy familial hypertrophic type 3 (CMH3) [MIM:115196]. Familial hypertrophic cardiomyopathy is a hereditary heart disorder characterized by ventricular hypertrophy, which is usually asymmetric and often involves the interventricular septum. The symptoms include dyspnea, syncope, collapse, palpitations, and chest pain. They can be readily provoked by exercise. The disorder has inter- and intrafamilial variability ranging from benign to malignant forms with high risk of cardiac failure and sudden cardiac death. Defects in TPM1 are the cause of cardiomyopathy dilated type 1Y (CMD1Y) [MIM:611878]. Dilated cardiomyopathy is a disorder characterized by ventricular dilation and impaired systolic function, resulting in congestive heart failure and arrhythmia. Patients are at risk of premature death.
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.
细胞定位	Cytoplasm > cytoskeleton.

图片



SDS-PAGE - Recombinant Human Tropomyosin 1 (alpha) protein (ab99214)

15% SDS-PAGE analysis of 3µg ab99214.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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