

# Recombinant Human Tropomyosin 1 (alpha) protein ab99214

画像数 1

### 製品の詳細

製品名	Recombinant Human Tropomyosin 1 (alpha) protein
精製度	> 90 % SDS-PAGE. ab99214 is purified using conventional chromatography techniques.
発現系	Escherichia coli
アクセッション番号	<b>P09493</b>
タンパク質長	Full length protein
Animal free	No
由来	Recombinant
生物種	Human
配列	<p>MGSSHHHHHHSSGLVPRGSHMDAIKKKMQMLKLDKENALD  RAEQAEADKK  AAEDRSKQLEDELVSLQKKLKGTEDELDKYSEALKDAQEKLE  LAEEKATD  AEADVASLNRRIQLVEEELDRAQERLATALQKLEEAKEAADE  SERGMKVI  ESRAQKDEEKMEIQEIQLKAEKHIAEDADRKYEEVARKLVII  ESDLERAE  ERAELSEGQVRQLEEQLRIMDQTLKALMAAEDKYSQKEDRYE  EEIKVLSD  KLKEAETRAEFAERSVTKLEKSIDDLEDELYAQKLKYKAISE  ELDHALND MTSM</p>
予測される分子量	35 kDa including tags
領域	1 to 284
タグ	His tag N-Terminus

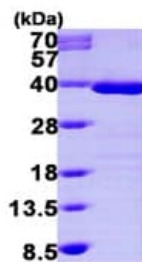
### 特性

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.

アプリケーション	Mass Spectrometry
	SDS-PAGE
質量分析	MALDI-TOF

製品の状態	Liquid
前処理および保存	
保存方法および安定性	<p>Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.</p> <p>pH: 8.00</p> <p>Constituents: 0.0154% DTT, 0.316% Tris HCl, 20% Glycerol (glycerin, glycerine), 0.58% Sodium chloride</p>
関連情報	
機能	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.
組織特異性	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.
関連疾患	<p>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.</p> <p>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.</p>
配列類似性	Belongs to the tropomyosin family.
ドメイン	The molecule is in a coiled coil structure that is formed by 2 polypeptide chains. The sequence exhibits a prominent seven-residues periodicity.
細胞内局在	Cytoplasm > cytoskeleton.
画像	



15% SDS-PAGE analysis of 3µg ab99214.

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

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

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