abcam

Product datasheet

Recombinant Human Tropomyosin 3 protein ab116189

画像数 1

製品の概要

製品名	Recombinant Human Tropomyosin 3 protein
タンパク質長	Full length protein

製品の詳細

由来	Recombinant
由来	Escherichia coli

アミノ酸配列

アクセッション番号	P06753-2
生物種	Human
配列	MGSSHHHHHHSSGLVPRGSHMGSHMAGITTIEAVKRKIQVLQQQADDAEE RAERLQREVEGERRAREQAEAEVASLNRRIQLVEEELDRAQERLATALQK LEEAEKAADESERGMKVIENRALKDEEKMELQEIQLKEAKHIAEEADRKY EEVARKLVIIEGDLERTEERAELAESRCREMDEQIRLMDQNLKCLSAAEE KYSQKEDKYEEEIKILTDKLKEAETRAEFAERSVAKLEKTIDDLEDKLKC TKEEHLCTQRMLDQTLLDLNEM
分子量	32 kDa including tags
領域	1 to 248
タグ	His tag N-Terminus

特性

Our Abpromise guarantee covers the use of **ab116189** 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
精製度	> 90 % SDS-PAGE. ab116189 was purified using conventional chromatography techniques.
製品の状態	Liquid

前処理および保存

保存方法および安定性

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 8.00
Constituents: 0.32% Tris HCl, 0.02% DTT, 10% Glycerol, 0.58% Sodium chloride

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.

関連疾患

Defects in TPM3 are the cause of nemaline myopathy type 1 (NEM1) [MIM:609284]. A form of nemaline myopathy with autosomal dominant or recessive inheritance. 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. Autosomal dominant nemaline myopathy type 1 is characterized by a moderate phenotype with onset between birth and early second decade of life. Weakness is diffuse and symmetric with slow progression often with need for a wheelchair in adulthood. The autosomal recessive form has onset at birth with moderate-to-severe hypotonia and diffuse weakness. In the most severe cases, death can occur before 2 years. Less severe cases have delayed major motor milestones, and these patients may walk, but often need a wheelchair before 10 years.
Defects in TPM3 are a cause of thyroid papillary carcinoma (TPC) [MIM:188550]. TPC is a common tumor of the thyroid that typically arises as an irregular, solid or cystic mass from otherwise normal thyroid tissue. Papillary carcinomas are malignant neoplasm characterized by the formation of numerous, irregular, finger-like projections of fibrous stroma that is covered with a surface layer of neoplastic epithelial cells. Note=A chromosomal aberration involving TPM3 is found in thyroid papillary carcinomas. A rearrangement with NTRK1 generates the TRK fusion transcript by fusing the amino end of isoform 2 of TPM3 to the 3'-end of NTRK1.

配列類似性

Belongs to the tropomyosin family.

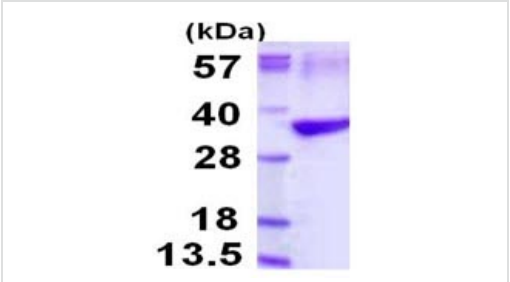
ドメイン

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



SDS-PAGE - Tropomyosin 3 protein (ab116189)

ab116189 (3µg) analysed on a 15% SDS-PAGE gel.

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