

Product datasheet

Recombinant Human TPM4 protein ab105576

1 Image

Description

Product name	Recombinant Human TPM4 protein
Purity	> 85 % SDS-PAGE. ab105576 was purified using conventional chromatography techniques.
Expression system	Escherichia coli
Accession	<u>P67936</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MGSSHHHHHH SSGLVPRGSH MAGLNSLEAV KRKIQALQQQ ADEAEDRAQG LQRELDGERE RREKAEGDVA ALNRRRIQLVE EELDRAQERL ATALQKLEEA EKAADESERG MKVIENRAMK DEEKMEIQEM QLKEAKHIAE EADRKYEEVA RKLVILEGEL ERAEERA EVS ELKCGDLEEE LKNVTNNLKS LEAASEKYSE KEDKYEEEIK LLSDKLKEAE TRAEFAERTV AKLEKTIDDL EEKLAQAKEE NVGLHQTL DQ TLNELNCI
Predicted molecular weight	31 kDa
Amino acids	1 to 248
Tags	His tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab105576** in the following tested applications.

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

Applications	SDS-PAGE Mass Spectrometry
Mass spectrometry	MALDI-TOF-TOF
Form	Liquid

Preparation and Storage

Stability and Storage

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: 0.0308% DTT, 0.316% Tris HCl, 10% Glycerol (glycerin, glycerine), 0.58% Sodium chloride

General Info

Function

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. Binds calcium.

Tissue specificity

Detected in cardiac tissue and platelets, the form found in cardiac tissue is a higher molecular weight than the form found in platelets. Expressed at higher levels in the platelets of hypertensive patients with cardiac hypertrophy than in the platelets of hypertensive patients without cardiac hypertrophy (at protein level).

Sequence similarities

Belongs to the tropomyosin family.

Domain

The molecule is in a coiled coil structure that is formed by 2 polypeptide chains. The sequence exhibits a prominent seven-residues periodicity.

Cellular localization

Cytoplasm > cytoskeleton.

Images



15% SDS-PAGE analysis of ab105576 (3ug)

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