# abcam

## 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 P67936

Protein length Full length protein

Animal free No

**Nature** Recombinant

**Species** Human

Sequence MGSSHHHHHH SSGLVPRGSH MAGLNSLEAV

KRKIQALQQQ ADEAEDRAQG LQRELDGERE RREKAEGDVA ALNRRIQLVE EELDRAQERL ATALQKLEEA EKAADESERG MKVIENRAMK DEEKMEIQEM QLKEAKHIAE EADRKYEEVA RKLVILEGEL ERAEERAEVS ELKCGDLEEE LKNVTNNLKS LEAASEKYSE KEDKYEEEIK LLSDKLKEAE TRAEFAERTV AKLEKTIDDL EEKLAQAKEE NVGLHQTLDQ 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

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## **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 HCI, 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).

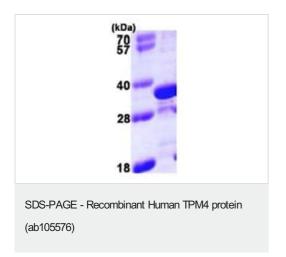
**Sequence similarities** Belongs to the tropomyosin family.

**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)

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

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