abcam

Product datasheet

Recombinant Human alpha smooth muscle Actin protein ab134555

1 Image

Overview

Product name	Recombinant Human alpha smooth muscle Actin protein
Protein length	Full length protein

Description

Nature	Recombinant
Source	Escherichia coli
Amino Acid Sequence	
Accession	P62736
Species	Human
Sequence	MGSSHHHHHHSSGLVPRGSHMGSHMEEEDSTALVC DNGSGLCKAGFAGDD APRAVFPSIVGRPRHQGVMVGMGQKDSYVGDEAQSK RGILTLKYPIEHGI ITNWDDMEKIWHHSFYNELRVAPEEHPTLLTEAPLNPK ANREKMTQIMFE TFNVPAMYVAIQAVLSLYASGRTTGIVLDSGDGVTHNV PIYEGYALPHAI MRLDLAGRDLTDYLMKILTERGYSFVTTAEREIVRDIKE KLCYVALDFEN EMATAASSSSLEKSYELPDGQVITIGNERFRCPETLFQ PSFIGMESAGIH ETTYNSIMKCDIDIRKDLYANNVLSGGTTMYPGIADRMQ KEITALAPSTM KIKIIAPPERKYSVWIGGSILASLSTFQQMWISKQEYDEA GPSIVHRKCF
Molecular weight	44 kDa including tags
Amino acids	3 to 377
Tags	His tag N-Terminus

Specifications

Our Abpromise guarantee covers the use of **ab134555** in the following tested applications.

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

Applications	Mass Spectrometry SDS-PAGE
Mass spectrometry	MALDI-TOF
Purity	> 85 % SDS-PAGE. ab134555 is purified using conventional chromatography techniques.
Form	Liquid

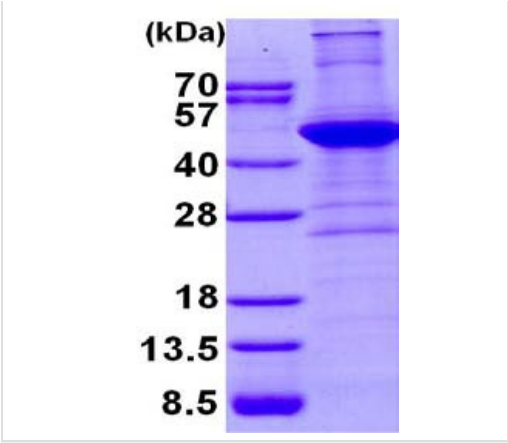
Preparation and Storage

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: 0.32% Tris HCl, 10% Glycerol, 0.88% Sodium chloride

General Info

Function	Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.
Involvement in disease	Defects in ACTA2 are the cause of aortic aneurysm familial thoracic type 6 (AAT6) [MIM:611788]. AATs are characterized by permanent dilation of the thoracic aorta usually due to degenerative changes in the aortic wall. They are primarily associated with a characteristic histologic appearance known as 'medial necrosis' or 'Erdheim cystic medial necrosis' in which there is degeneration and fragmentation of elastic fibers, loss of smooth muscle cells, and an accumulation of basophilic ground substance.
Sequence similarities	Belongs to the actin family.
Cellular localization	Cytoplasm > cytoskeleton.

Images



SDS-PAGE - Recombinant Human alpha smooth muscle Actin protein (ab134555)

15% SDS-PAGE analysis of 3 µg ab134555.

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- We provide support in Chinese, English, French, German, Japanese and Spanish
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