

Product datasheet

Recombinant Human TRC40 protein ab134590

1 Image

Description

Product name	Recombinant Human TRC40 protein
Purity	> 90 % SDS-PAGE. ab134590 is purified using conventional chromatography techniques.
Expression system	Escherichia coli
Accession	<u>O43681</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MGSSHHHHHSSGLVPRGSHMGSMAGVAGWGVEAEE FEDAPDVEPLEPT LSNIEQRSLKWIFVGGKGGVGKTTCSCLAVQLSKGRES VLIISTDPAH NISDAFDQKFSKVPTKVKGYNLFAMEIDPSLGVAELPDE FFEEDNMLSM GKKMMQEAMSAFPGIDEAMSYAEVMRLVKGMNFSVVVF DTAPTGHTLRL NFPTIVERGLGRMLQIKNQISPFISQMCNMLGLGDMNADQL ASKLEETLP VIRSVSEQFKDPEQTTFCVIAEFLSLYETERLIQELAKCKI DTHNIV NQLVFPDPEKPKMCEARHKIQAKYLDQMEDLYEDFHVK LPLLPHEVRG ADKVNTFSALLLEPYKPPSAQ
Predicted molecular weight	41 kDa including tags
Amino acids	1 to 348
Tags	His tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab134590** 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
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Mass Spectrometry

Mass spectrometry

MALDI-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: 0.32% Tris HCl, 10% Glycerol (glycerin, glycerine)

General Info

Function

ATPase required for the post-translational delivery of tail-anchored (TA) proteins to the endoplasmic reticulum. Recognizes and selectively binds the transmembrane domain of TA proteins in the cytosol. This complex then targets to the endoplasmic reticulum by membrane-bound receptors, where the tail-anchored protein is released for insertion. This process is regulated by ATP binding and hydrolysis. ATP binding drives the homodimer towards the closed dimer state, facilitating recognition of newly synthesized TA membrane proteins. ATP hydrolysis is required for insertion. Subsequently, the homodimer reverts towards the open dimer state, lowering its affinity for the membrane-bound receptor, and returning it to the cytosol to initiate a new round of targeting (By similarity). May be involved in insulin signaling.

Tissue specificity

Expressed in the epithelial cells of the liver, kidney, and stomach wall, in the adrenal medulla, in the islet cells of the pancreas, in the red pulp of the spleen, and in cardiac and skeletal muscle.

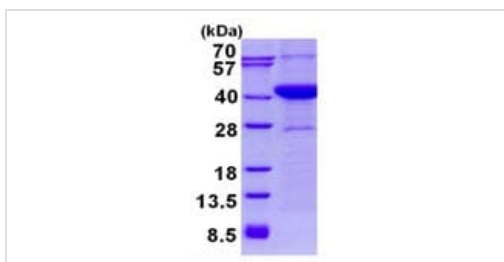
Sequence similarities

Belongs to the arsA ATPase family.

Cellular localization

Cytoplasm. Endoplasmic reticulum. Nucleus > nucleolus.

Images



15% SDS-PAGE analysis of 3 µg ab134590

SDS-PAGE - Recombinant Human TRC40 protein
(ab134590)

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

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