abcam

Product datasheet

Recombinant Human ETHE1 protein ab119454

1 Image

Overview

Product name	Recombinant Human ETHE1 protein
Protein length	Full length protein

Description

Nature	Recombinant
Source	Escherichia coli

Amino Acid Sequence

Accession	O95571
Species	Human
Sequence	**MGSSHHHHHH SSGLVPRGSH MGSHM**LSQRG GSGAPILLRQ MFEPVSCTFT YLLGDRESRE AVLIDPVLET APRDAQLIKE LGLRLLYAVN THCHADHITG SGLLRSLLPG CQSVISRLSG AQADLHIEDG DSIRFGRFAL ETRASPGHTP GCVTFVLNDH SMAFTGDALL IRGCGRTDFQ QGCAKTLYHS VHEKIFTLPG DCLIYPAHDY HGFTVSTVEE ERTLNPRLTL SCEEFVKIMG NLNLPKPQQI DFAVPANMRC GVQTPTA
Molecular weight	29 kDa including tags
Amino acids	13 to 254
Tags	His tag N-Terminus

Specifications

Our Abpromise guarantee covers the use of **ab119454** 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	> 90 % SDS-PAGE.

Form	Liquid

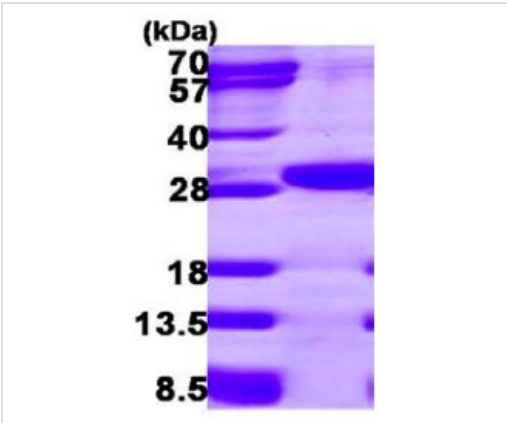
Preparation and Storage

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, 0.58% Sodium chloride

General Info

Function	Probably plays an important role in metabolic homeostasis in mitochondria. May function as a nuclear-cytoplasmic shuttling protein that binds transcription factor RELA/NFKB3 in the nucleus and exports it to the cytoplasm. Suppresses p53-induced apoptosis by preventing nuclear localization of RELA.
Tissue specificity	Ubiquitously expressed.
Involvement in disease	Defects in ETHE1 are a cause of ethylmalonic encephalopathy (EE) [MIM:602473]. EE is an autosomal recessive disorder characterized by neurodevelopmental delay and regression, recurrent petechiae, acrocyanosis, diarrhea, leading to death in the first decade of life. It is also associated with persistent lactic acidemia and ethylmalonic and methylsuccinic aciduria.
Sequence similarities	Belongs to the metallo-beta-lactamase superfamily. Glyoxalase II family.
Cellular localization	Cytoplasm. Nucleus. Mitochondrion matrix. According to PubMed:12398897, it is cytoplasmic and nuclear. According to PubMed:14732903, it is found in the mitochondrial matrix.

Images



SDS-PAGE - ETHE1 protein (ab119454)

15% SDS-PAGE analysis of ab119454 (3µg)

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- We provide support in Chinese, English, French, German, Japanese and Spanish
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- We investigate all quality concerns to ensure our products perform to the highest standards

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