abcam

Product datasheet

Recombinant Human CYB5R3 protein ab119468

1 Image

Description

Product name	Recombinant Human CYB5R3 protein
Purity	> 95 % SDS-PAGE. ab119468 was purified using conventional chromatography.
Expression system	Escherichia coli
Accession	P00387
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	**MGSSHHHHHH SSGLVPRGSH MGSHM**FQRST PAITLESPDI KYPLRLIDRE IISHDTRRFR FALPSPQHIL GLPVGQHIYL SARIDGNLVV RPYTPISSDD DKGFVDLVIK VYFKDTHPKF PAGGKMSQYL ESMQIGDTIE FRGPSGLLVY QGKGKFAIRP DKKSNPIIRT VKSVGMIAGG TGITPMLQVI RAIMKDPDDH TVCHLLFANQ TEKDILLRPE LEELRNKHSA RFKLWYTLDR APEAWDYGQG FVNEEMIRDH LPPPEEEPLV LMCGPPPMIQ YACLPNLDHV GHPTERCFVF
Predicted molecular weight	34 kDa including tags
Amino acids	27 to 301
Tags	His tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab119468** 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
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 long term. Avoid freeze / thaw cycle.

pH: 8.00
Constituents: 0.02% DTT, 0.32% Tris HCl, 10% Glycerol (glycerin, glycerine), 0.58% Sodium chloride

General Info

Function

Desaturation and elongation of fatty acids, cholesterol biosynthesis, drug metabolism, and, in erythrocyte, methemoglobin reduction.

Tissue specificity

Isoform 2 is expressed at late stages of erythroid maturation.

Involvement in disease

Defects in CYB5R3 are the cause of methemoglobinemia CYB5R3-related (METHB-CYB5R3) [MIM:250800]. A form of methemoglobinemia, a hematologic disease characterized by the presence of excessive amounts of methemoglobin in blood cells, resulting in decreased oxygen carrying capacity of the blood, cyanosis and hypoxia. There are two types of methemoglobinemia CYB5R3-related. In type 1, the defect affects the soluble form of the enzyme, is restricted to red blood cells, and causes well-tolerated methemoglobinemia. In type 2, the defect affects both the soluble and microsomal forms of the enzyme and is thus generalized, affecting red cells, leukocytes and all body tissues. Type 2 methemoglobinemia is associated with mental deficiency and other neurologic symptoms.

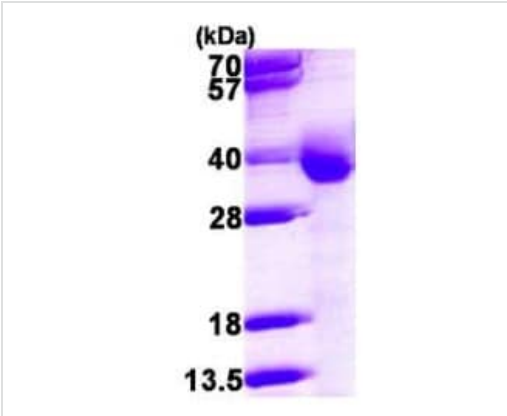
Sequence similarities

Belongs to the flavoprotein pyridine nucleotide cytochrome reductase family.
Contains 1 FAD-binding FR-type domain.

Cellular localization

Endoplasmic reticulum membrane. Mitochondrion outer membrane and Cytoplasm. Produces the soluble form found in erythrocytes.

Images



SDS-PAGE - Recombinant Human CYB5R3 protein (ab119468)

15% SDS-PAGE analysis of ab119468 (3µg)

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors