abcam

Product datasheet

Recombinant Human SLC25A13 protein ab160856

1 Image

Overview

Product name	Recombinant Human SLC25A13 protein
Protein length	Protein fragment

Description

Nature	Recombinant
Source	Wheat germ
Amino Acid Sequence	
Species	Human
Sequence	AAAKVALTKRADPAELRTIFLKYASIEKNGEFFMSPND FVTRYLNIFGES QPNPKTVELLSGVVDQTKDGLISFQEFVA
Amino acids	2 to 80
Tags	proprietary tag N-Terminus

Specifications

Our Abpromise guarantee covers the use of **ab160856** in the following tested applications.

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

Applications	ELISA Western blot
Form	Liquid
Additional notes	Protein concentration is above or equal to 0.05 mg/ml.

Preparation and Storage

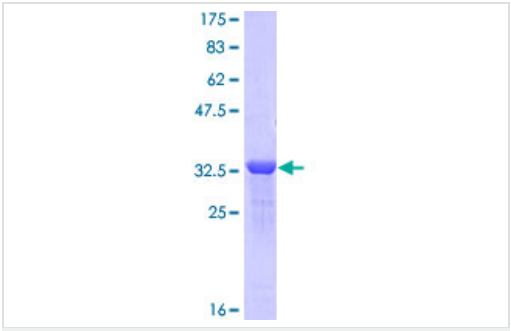
Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl

General Info

General info

Function	Catalyzes the calcium-dependent exchange of cytoplasmic glutamate with mitochondrial aspartate across the mitochondrial inner membrane. May have a function in the urea cycle.
Tissue specificity	High levels in liver and low levels in kidney, pancreas, placenta, heart and brain.
Involvement in disease	Defects in SLC25A13 are the cause of citrullinemia type 2 (CTLN2) [MIM:603471]. Citrullinemia belongs to the urea cycle disorders. It is an autosomal recessive disease characterized primarily by elevated serum and urine citrulline levels. Ammonia intoxication is another manifestation. CTLN2 is characterized by neuropsychiatric symptoms including abnormal behaviors, loss of memory, seizures and coma. Death can result from brain edema. Onset is sudden and usually between the ages of 20 and 50 years. Defects in SLC25A13 are the cause of neonatal intrahepatic cholestasis due to citrin deficiency (NICCD) [MIM:605814]. NICCD is a form of citrullinemia type 2 with neonatal onset. NICCD is characterized by suppression of the bile flow, hepatic fibrosis, low birth weight, growth retardation, hypoproteinemia, variable liver dysfunction. NICCD is generally not severe and symptoms disappear by one year of age with an appropriate diet. Years or even decades later, however, some individuals develop the characteristic features of citrullinemia type 2 with neuropsychiatric symptoms.
Sequence similarities	Belongs to the mitochondrial carrier family. Contains 4 EF-hand domains. Contains 3 Solcar repeats.
Cellular localization	Mitochondrion inner membrane.

Images



SDS-PAGE - Recombinant Human SLC25A13 protein (ab160856)

ab160856 on a 12.5% SDS-PAGE stained with Coomassie Blue.

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