


Product datasheet

Anti-SLC25A13/Citrin antibody ab96303

★★★★★ 1 Abreviews 7 Images

Overview

Product name	Anti-SLC25A13/Citrin antibody
Description	Rabbit polyclonal to SLC25A13/Citrin
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, IHC-P, WB
Species reactivity	Reacts with: Mouse, Rat, Human Predicted to work with: Cow, Zebrafish 
Immunogen	Recombinant fragment corresponding to Human SLC25A13/Citrin aa 248-505.
Positive control	IHC-P: Mouse kidney tissue;N87 xenograft tissue. ICC/IF: HeLa cells. WB: Mouse liver lysate; rat liver lysate; HepG2, HEK-293T, A431 and HeLa whole cell extracts.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.00 Preservative: 0.025% Proclin 300 Constituents: 79% PBS, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab96303 in the following tested applications.

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

Application	Abreviews	Notes
ICC/IF		1/100 - 1/1000.
IHC-P		1/100 - 1/1000.
WB	★★★★★ (1)	1/500 - 1/3000. Predicted molecular weight: 74 kDa.

Target

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.

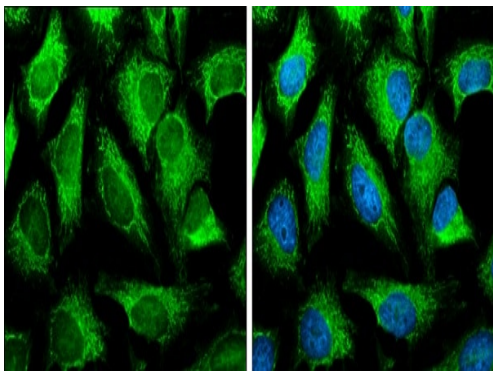
Sequence similarities

Belongs to the mitochondrial carrier family.
Contains 4 EF-hand domains.
Contains 3 Solcar repeats.

Cellular localization

Mitochondrion inner membrane.

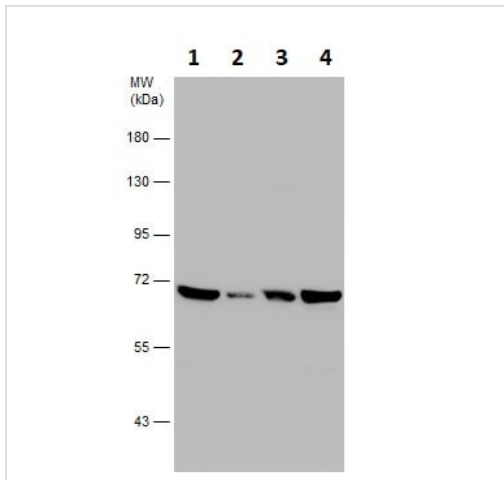
Images



Immunocytochemistry/ Immunofluorescence - Anti-SLC25A13/Citrin antibody (ab96303)

4% paraformaldehyde-fixed HeLa (human epithelial cell line from cervix adenocarcinoma) cells labeling SLC25A13/Citrin using ab96303 at 1/500 dilution (green) in ICC/IF.

The nuclear counter stain is Hoechst 33342 (blue).



Western blot - Anti-SLC25A13/Citrin antibody (ab96303)

All lanes : Anti-SLC25A13/Citrin antibody (ab96303) at 1/3000 dilution

Lane 1 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell extract

Lane 2 : A431 (human epidermoid carcinoma cell line) whole cell extract

Lane 3 : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell extract

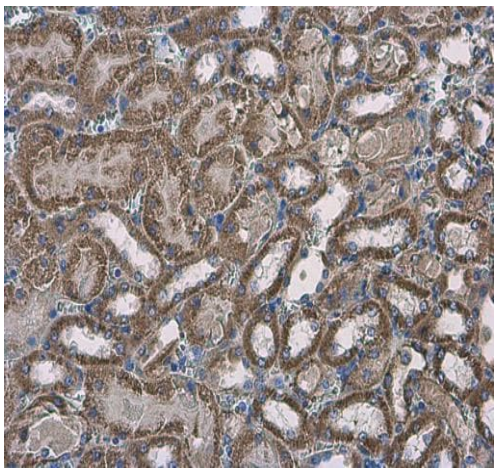
Lane 4 : HepG2 (human liver hepatocellular carcinoma cell line) whole cell extract

Lysates/proteins at 30 µg per lane.

Secondary

All lanes : HRP-conjugated anti-rabbit IgG

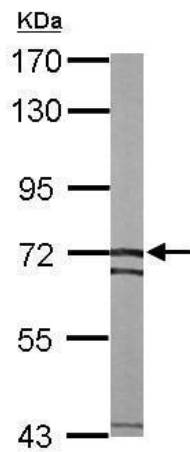
Predicted band size: 74 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SLC25A13/Citrin antibody (ab96303)

Paraffin-embedded mouse kidney tissue labeling SLC25A13/Citrin using ab96303 at 1/500 dilution in immunohistochemical analysis.

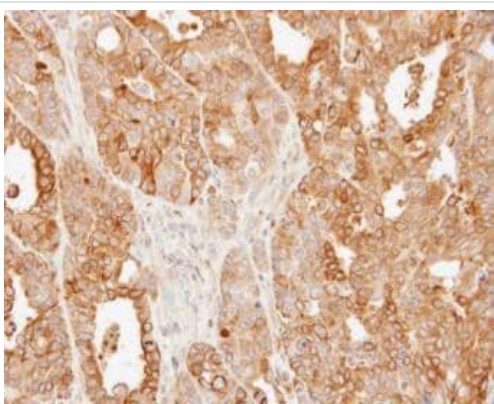
Antigen retrieval: Citrate buffer, pH 6.0, 15 min.



Western blot - Anti-SLC25A13/Citrin antibody (ab96303)

Anti-SLC25A13/Citrin antibody (ab96303) at 1/1000 dilution + Mouse liver lysate at 50 μ g

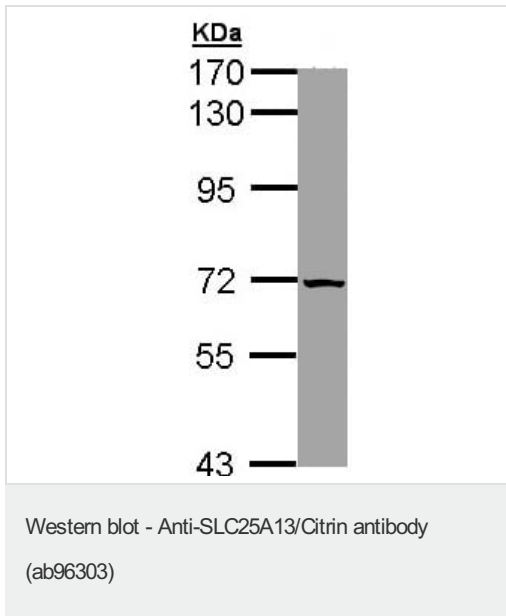
Predicted band size: 74 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SLC25A13/Citrin antibody (ab96303)

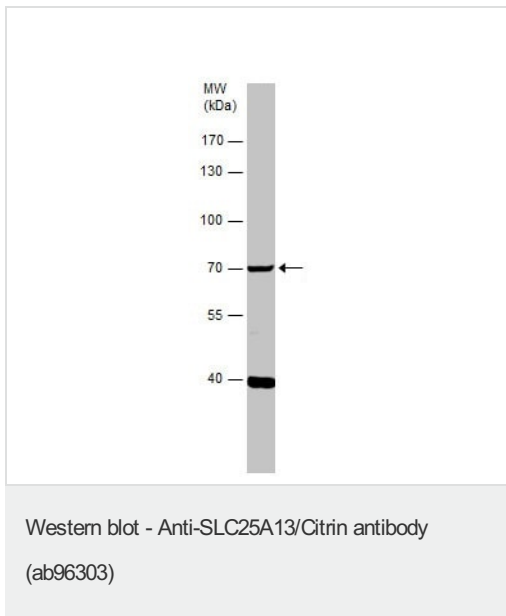
Paraffin-embedded N87 xenograft tissue labeling SLC25A13/Citrin using ab96303 at 1/500 dilution in immunohistochemical analysis.

Antigen retrieval: EWDTA-based (pH 8.0), 15 minutes.



Anti-SLC25A13/Citrin antibody (ab96303) at 1/1000 dilution + 293T whole cell lysate at 30 µg

Predicted band size: 74 kDa



Anti-SLC25A13/Citrin antibody (ab96303) at 1/500 dilution + Rat liver lysate at 50 µg

Secondary

HRP-conjugated anti-rabbit IgG

Predicted band size: 74 kDa

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

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