abcam

ab230845

Anti-SLC16A11 antibody

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.4 Preservative: 0.09% Sodium azide Constituents: PBS
Form	Liquid
Clonality	Polyclonal
Immunogen	Synthetic Peptide within Human SLC16A11 aa 1-100 conjugated to Keyhole Limpet Haemocyanin. The exact immunogen used to generate this antibody is proprietary information. Database link Q8NCK7
Purification technique	Affinity purification Protein A
Concentration	0.48 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Mouse
Dilution info	1/1000
Notes	-

Expected

Species	Human

Dilution info	Use at an assay dependent concentration.
Notes	-

IHC-P

Tested

Species	Human
Dilution info	1/50 - 1/100
Notes	-

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

Target data

See full target information SLC16A11

Function	Proton-linked monocarboxylate transporter. It catalyzes the transport of pyruvate across the plasma membrane (PubMed:28666119). Probably involved in hepatic lipid metabolism: overexpression results in an increase of triacylglycerol(TAG)

	levels, small increases in intracellular diacylglycerols and decreases in lysophosphatidylcholine, cholesterol ester and sphingomyelin lipids (PubMed:24390345).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	SLC16A11 also known as monocarboxylate transporter 11 is a member of the solute carrier family. It has a mass of approximately 55 kDa. This transporter is primarily found in liver and adipose tissues where it likely functions in the transport of monocarboxylates such as lactate and pyruvate across cellular membranes. Its expression is notable in cells that are involved in energy metabolism.
Biological function summary	SLC16A11 plays an important role in cellular metabolism. It facilitates the uptake and release of key metabolic intermediates. While there is no evidence that it forms a complex with other proteins it likely interacts with other monocarboxylate transporters in regulating cellular metabolic balance. The transporter's activity is particularly significant in contexts where shifts in cellular energy states require precise control over monocarboxylate levels.
Pathways	Several processes involve SLC16A11 including energy metabolism and insulin signaling. It contributes to homeostatic metabolic pathways by modulating the availability of substrates for energy production. SLC16A11 works alongside other transporters such as SLC16A1 coordinating the movement of energy-related compounds. This regulation is key in maintaining metabolic stability especially under varying metabolic demands.
Associated diseases and disorders	SLC16A11 has a strong connection to type 2 diabetes. Genetic variants in this transporter are associated with altered risk of developing the condition particularly in certain populations such as those with Latin American ancestry.

Other proteins like insulin receptor substrate 1 (IRS1) may interact indirectly with SLC16A11 impacting signaling pathways that control blood glucose levels. Research continues to investigate its role in metabolic diseases hoping to discover therapeutic targets or strategies.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

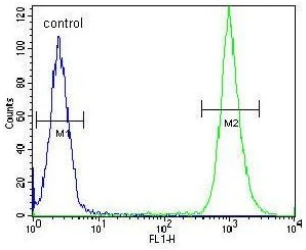
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

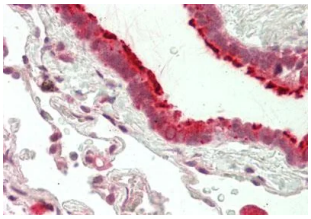
3 product images



Flow Cytometry (Intracellular) - Anti-SLC16A11 antibody (ab230845)

SLC16A11 Flow Cytometry (Intracellular) staining using rabbit Anti-SLC16A11 antibody

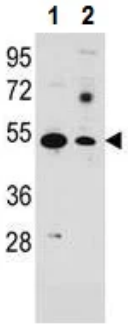
Intracellular flow cytometric analysis ofWiDr cells labeling SLC16A11 with ab230845 at 1/10 dilution (green) compared with a negative control (blue). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SLC16A11 antibody (ab230845)

SLC16A11 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-SLC16A11 antibody

Formalin-fixed, paraffin-embedded human lung tissue stained for SLC16A11 using ab230845 at 1/50 dilution in immunohistochemical analysis.



Western blot - Anti-SLC16A11 antibody (ab230845)

All lanes:
Western blot - Anti-SLC16A11 antibody (ab230845) at 1/1000 dilution

Lane 1:
Mouse brain lysate at 35 µg

Lane 2:
Mouse stomach lysate at 35 µg

Predicted band size: 48 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.