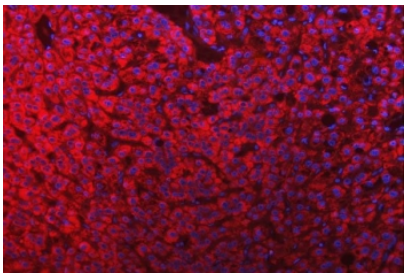
SLC25A10 Antibody / Mitochondrial Dicarboxylate Carrier (RQ7682)

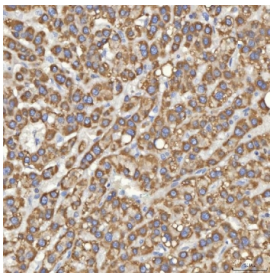
Catalog No.	Formulation	Size
RQ7682	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

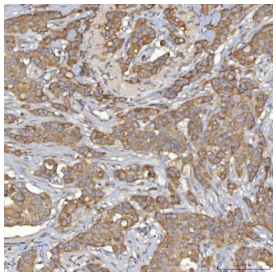
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q9UBX3
Localization	Cytoplasmic (mitochondria)
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml IF Direct ELISA: 0.1-0.5ug/ml
Limitations	This SLC25A10 antibody is available for research use only.



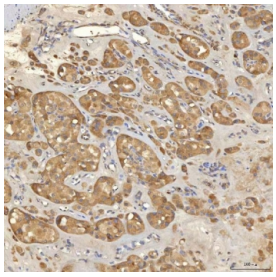
Immunofluorescent staining of FFPE human liver cancer tissue with SLC25A10 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



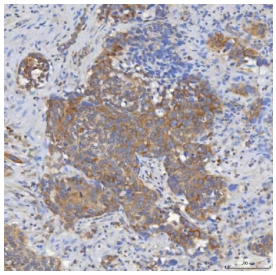
IHC staining of FFPE human liver cancer tissue with SLC25A10 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



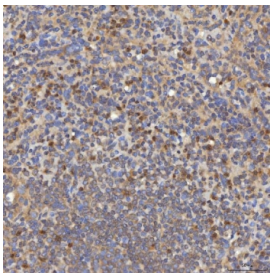
IHC staining of FFPE human breast cancer tissue with SLC25A10 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



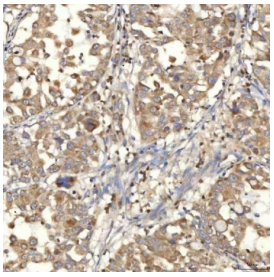
IHC staining of FFPE human right renal oncocytoma tissue with SLC25A10 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



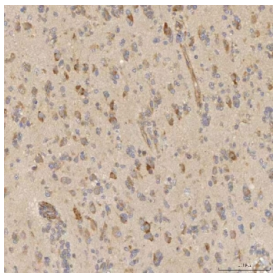
IHC staining of FFPE human urothelial carcinoma tissue with SLC25A10 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



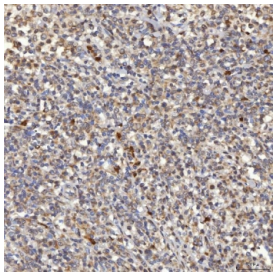
IHC staining of FFPE human spleen tissue with SLC25A10 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



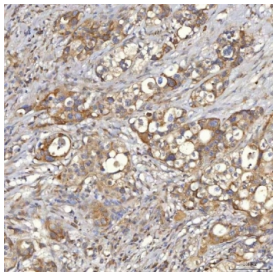
IHC staining of FFPE human lung adenocarcinoma tissue with SLC25A10 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human glioblastoma tissue with SLC25A10 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



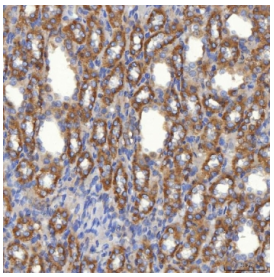
IHC staining of FFPE human diffuse large B cell lymphoma tissue with SLC25A10 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



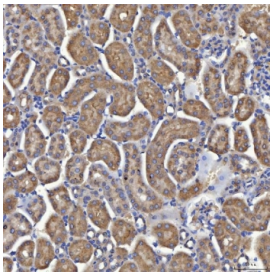
IHC staining of FFPE human appendix adenocarcinoma tissue with SLC25A10 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



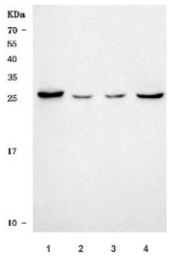
IHC staining of FFPE human colon adenocarcinoma tissue with SLC25A10 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat kidney tissue with SLC25A10 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE mouse kidney tissue with SLC25A10 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human HepG2, 2) human 293T, 3) rat liver and 4) rat kidney tissue lysate with SLC25A10 antibody. Predicted molecular weight ~31 kDa.

Description

The mitochondrial dicarboxylate carrier (DIC) is an integral membrane protein encoded by the SLC25A10 gene in humans that catalyzes the transport of dicarboxylates such as malonate, malate, and succinate across the inner mitochondrial membrane in exchange for phosphate, sulfate, and thiosulfate by a simultaneous antiport mechanism, thus supplying substrates for the Krebs cycle, gluconeogenesis, urea synthesis, fatty acid synthesis, and sulfur metabolism. This gene encodes a member of a family of proteins that translocate small metabolites across the mitochondrial membrane. The encoded protein exchanges dicarboxylates, such as malate and succinate, for phosphate, sulfate, and other small molecules, thereby providing substrates for metabolic processes including the Krebs cycle and fatty acid synthesis. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene.

Application Notes

Optimal dilution of the SLC25A10 antibody should be determined by the researcher.

Immunogen

E. coli-derived recombinant human protein (amino acids Q37-Q276) was used as the immunogen for the SLC25A10 antibody.

Storage

After reconstitution, the SLC25A10 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com
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