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SLC25A13 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant SLC25A13.
Catalog # AT3911a

Product Information

Application	WB, IF, E
Primary Accession	Q9UJS0
Other Accession	NM_014251
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	4F4
Calculated MW	74176

Additional Information

Gene ID	10165
Other Names	Calcium-binding mitochondrial carrier protein Aralar2, Citrin, Mitochondrial aspartate glutamate carrier 2, Solute carrier family 25 member 13, SLC25A13, ARALAR2
Target/Specificity	SLC25A13 (NP_055066, 2 a.a. ~ 80 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	SLC25A13 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

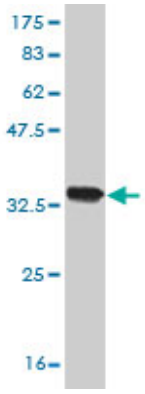
Background

This gene is a member of the mitochondrial carrier family. The encoded protein contains four EF-hand Ca(2+) binding motifs in the N-terminal domain, and localizes to mitochondria. The protein catalyzes the exchange of aspartate for glutamate and a proton across the inner mitochondrial membrane, and is stimulated by calcium on the external side of the inner mitochondrial membrane. Mutations in this gene result in citrullinemia, type II. Multiple transcript variants encoding different isoforms have been found for this gene.

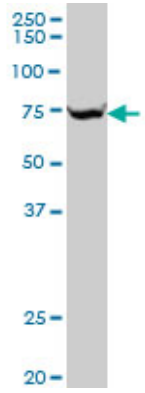
References

Polymorphic variants of genes related to arginine metabolism and the risk of orofacial clefts. Hozyasz KK, et al. Arch Oral Biol, 2010 Aug 23. PMID 20739017.Neonatal intrahepatic cholestasis caused by citrin deficiency (NICCD) in three Malay children. Ngu HL, et al. Malays J Pathol, 2010 Jun. PMID 20614727.Most common SLC25A13 mutation in 400 Chinese infants with intrahepatic cholestasis. Fu HY, et al. World J Gastroenterol, 2010 May 14. PMID 20458766.Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.[Studies on the clinical manifestation and SLC25A13 gene mutation of Chinese patients with neonatal intrahepatic cholestasis caused by citrin deficiency] Xing YZ, et al. Zhonghua Yi Xue Yi Chuan Xue Za Zhi, 2010 Apr. PMID 20376801.

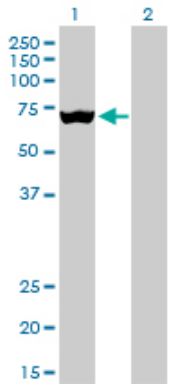
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (34.43 KDa) .



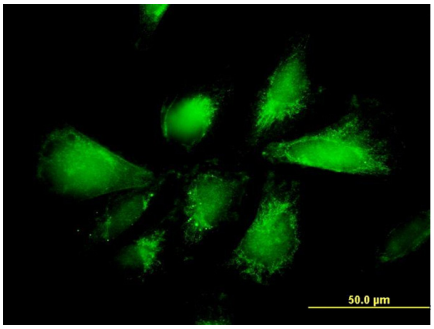
SLC25A13 monoclonal antibody (M01), clone 4F4 Western Blot analysis of SLC25A13 expression in HepG2 ((Cat # AT3911a)

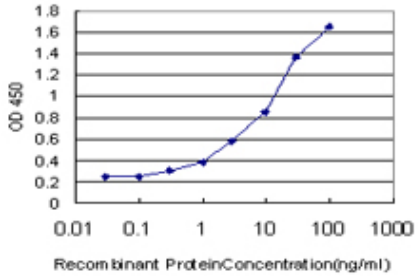


Western Blot analysis of SLC25A13 expression in transfected 293T cell line by SLC25A13 monoclonal antibody (M01), clone 4F4.

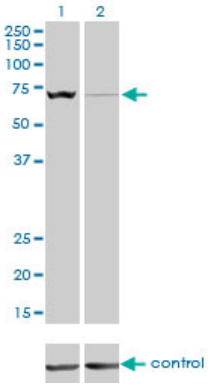
Lane 1: SLC25A13 transfected lysate(74.2 KDa).
Lane 2: Non-transfected lysate.

Immunofluorescence of monoclonal antibody to SLC25A13 on HepG2 cell. [antibody concentration 10 ug/ml]





Detection limit for recombinant GST tagged SLC25A13 is approximately 0.3ng/ml as a capture antibody.



Western blot analysis of SLC25A13 over-expressed 293 cell line, cotransfected with SLC25A13 Validated Chimera RNAi ((Cat # AT3911a)

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