Datasheet for ABIN7602839

anti-Slc25a1 antibody (C-Term)

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Overview

Quantity:	100 µg
Target:	Slc25a1
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Slc25a1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Purpose:	Anti-Slc25a1 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human Slc25a1, which shares 93.3% amino acid (aa) sequence identity with both mouse and rat Slc25a1.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-Slc25a1 Antibody Picoband® (ABIN7602839). Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	Slc25a1
Alternative Name:	SLC25A1 (Slc25a1 Products)
Background:	Synonyms: Tricarboxylate transport protein, mitochondrial, Citrate transport protein, CTP, Solute carrier family 25 member 1, Tricarboxylate carrier protein, SLC25A1, SLC20A3 Tissue Specificity: Detected in brain. Detected at very much lower levels in heart, lung, placenta and skeletal muscle. Highly expressed in cerebellum, but also found in frontal cortex, hippocampus and basal ganglia. Background: Tricarboxylate transport protein, mitochondrial, also known as tricarboxylate carrier protein and citrate transport protein (CTP), is a protein that in humans is encoded by the SLC25A1 gene. It is mapped to 22q11.21. This gene encodes a member of the mitochondrial carrier subfamily of solute carrier proteins. Members of this family include nuclear-encoded transporters that translocate small metabolites across the mitochondrial membrane. This protein regulates the movement of citrate across the inner membranes of the mitochondria. Mutations in this gene have been associated with combined D-2- and L-2-hydroxyglutaric aciduria. Pseudogenes of this gene have been identified on chromosomes 7, 11, 16, and 19. Alternative splicing results in multiple transcript variants.
Molecular Weight:	34 kDa
Gene ID:	6576
UniProt:	P53007

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 2-5 µg/mL, Human 1. Chaouch, A., Porcelli, V., Cox, D., Edvardson, S., Scarcia, P., De Grassi, A., Pierri, C. L., Cossins, J., Laval, S. H., Griffin, H., Muller, J. S., Evangelista, T., and 13 others. Mutations in the mitochondrial citrate carrier SLC25A1 are associated with impaired neuromuscular transmission. J. Neuromusc. Dis. 1: 75-90, 2014. 2. Edvardson, S., Porcelli, V., Jalas, C., Sioferman, D., Kelner, Y., Shaaq, A., Korman, S. H., Pierri, C. L., Scarcia, P., Fraenkel, N. D., Segel, R., Schechter, A., Frumkin, A., Pines, O., Saada, A., Palmieri, ., Elpeleg, O. Agenesis of corpus callosum and optic nerve hypoplasia due to mutations in SLC25A1 encoding the mitochondrial citrate transporter. J. Med. Genet. 50: 240-245, 2013. 3. Goldmuntz, E., Wang, Z., Roe, B. A., Budarf, M. L. Cloning, genomic organization, and chromosomal localization of human citrate transport protein to the DiGeorge/velocardiofacial syndrome minimal critical region. Genomics

Application Details

	33: 271-276, 1996.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.01 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.