



[Go to Product page](#)

Datasheet for ABIN1394289

anti-SLC25A12 antibody (AA 101-200) (Alexa Fluor 350)

Overview

Quantity:	100 µL
Target:	SLC25A12 (Slc25a12)
Binding Specificity:	AA 101-200
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SLC25A12 antibody is conjugated to Alexa Fluor 350
Application:	Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human SLC25A12/ARALAR
Isotype:	IgG
Cross-Reactivity:	Mouse
Predicted Reactivity:	Human,Rat,Dog,Cow,Horse
Purification:	Purified by Protein A.

Target Details

Target:	SLC25A12 (Slc25a12)
Alternative Name:	SLC25A12/ARALAR (Slc25a12 Products)

Target Details

Background:	<p>Synonyms: AGC1, Araceli hiperlarga, ARALAR, ARALAR1, Calcium binding mitochondrial carrier superfamily member, Calcium-binding mitochondrial carrier protein Aralar1, CMC1_HUMAN, Mitochondrial aspartate glutamate carrier 1, SLC25A12, Solute carrier family 25 member 12, solute carrier family 25, member 12.</p> <p>Background: Calcium signaling in mitochondria is important in order for it to function in response to a variety of extracellular stimuli. Signaling begins with Ca(2+) entry in mitochondria via the Ca(2+) uniporter followed by Ca(2+) activation of three dehydrogenases in the mitochondrial matrix. ARALAR, the neuronal Ca(2+)-binding mitochondrial aspartate-glutamate carrier, has Ca(2+) binding domains facing the extramitochondrial space and functions in the malate-aspartate NADH shuttle (MAS). ARALAR is encoded by the SLC25A12 gene and is expressed in brain and skeletal muscle. ARALAR is required for the synthesis of brain aspartate and N-acetylaspartatemay and plays a role in myelin formation. It is also essential for the transmission of small Ca(2+) signals to mitochondria via an increase in mitochondrial NADH. In addition, ARALAR is implicated in conferring susceptibility to schizophrenia.</p>
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Pathways:	Ribonucleoside Biosynthetic Process , Dicarboxylic Acid Transport
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Application Details

Application Notes:	IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
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Concentration:	1 µg/µL
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Buffer:	Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.
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Preservative:	ProClin
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Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
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Storage:	-20 °C
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Storage Comment:	Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.
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Handling

Expiry Date: 12 months