

Datasheet for ABIN1412181  
**anti-SLC25A12 antibody (AA 101-200) (Cy3)**



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## 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 Cy3                                                                                    |
| 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 ( <a href="#">Slc25a12 Products</a> ) |

## 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: | <a href="#">Ribonucleoside Biosynthetic Process</a> , <a href="#">Dicarboxylic Acid Transport</a> |
|-----------|---------------------------------------------------------------------------------------------------|

## Application Details

|                    |                                                              |
|--------------------|--------------------------------------------------------------|
| Application Notes: | IF(IHC-P) 1:50-200<br>IF(IHC-F) 1:50-200<br>IF(ICC) 1:50-200 |
|--------------------|--------------------------------------------------------------|

|               |                       |
|---------------|-----------------------|
| Restrictions: | For Research Use only |
|---------------|-----------------------|

## Handling

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

## Handling

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Expiry Date: 12 months