

Datasheet for ABIN112625  
**anti-SLC25A4 antibody (N-Term)**



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## Overview

Quantity:	1 mL
Target:	SLC25A4
Binding Specificity:	AA 1-11, N-Term
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SLC25A4 antibody is un-conjugated
Application:	Western Blotting (WB), Enzyme Immunoassay (EIA)

## Product Details

Immunogen:	Synthetic peptide corresponding to the amino acids 1-11 of the native molecule Rat ANT1 conjugated to KLH
Sequence:	C-G-D-Q-A-L-S-F-L-K-D-F
Specificity:	Reacts with Adenine Nucleotide Translocator 1 (ANT1).
Cross-Reactivity (Details):	Species reactivity (expected):Mouse, Rabbit, Bovine and Chicken:Species reactivity (tested):Rat.
Purification:	Affinity Chromatography on Protein G.

## Target Details

Target:	SLC25A4
Alternative Name:	SLC25A4 / ANT1 ( <a href="#">SLC25A4 Products</a> )

## Target Details

Background:	Adenine Nucleotide Translocase 1 (ANT1) catalyzes the exchange of ADP and ATP across the mitochondrial inner membrane. It is a key component of the mitochondrial permeability transition pore (PT pore) complex and is also one of the most abundant proteins in the mitochondrion making up approximately 10 % of all mitochondrial proteins. Originally described as an ADP/ATP exchange factor, ANT1 has also been shown to be required for bax mediated apoptosis. This is effected by binding of bax to residues 105-156 of ANT1, presumably resulting in maintaining the PT pore in an open conformation. Interaction with bax is not required for ANT1 pro-apoptotic activity as overexpression of the ANT1 protein also leads to the induction of apoptosis.Synonyms: ADP/ATP translocase 1, ANT 1, Adenine nucleotide translocator 1, Solute carrier family 25 member 4
Gene ID:	85333
NCBI Accession:	<a href="#">NP_445967</a>
UniProt:	<a href="#">Q05962</a>
Pathways:	<a href="#">Proton Transport</a> , <a href="#">Dicarboxylic Acid Transport</a>

## Application Details

Application Notes:	ELISA: 1/500-1/2000. Western blot: Gives A peptide blockable duplet at 31/33 kD in rat heart mitochondria. Also part peptide blockable duplets at 38/48 and 66/70 kD.  Other applications not tested.  Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	5.0 mg/mL (by OD280)
Buffer:	PBS, pH 7.2 containing 0.09 % Sodium Azide as preservative.
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C

## Handling

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Storage Comment: Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.