Anti-Adenine Nucleotide Translocase 1/ANT 1 antibody
ab102032

Overview

Product name: Anti-Adenine Nucleotide Translocase 1/ANT 1 antibody
Description: Rabbit polyclonal to Adenine Nucleotide Translocase 1/ANT 1
Host species: Rabbit
Tested applications: Suitable for: WB, IHC-P
Species reactivity: Reacts with: Human
Predicted to work with: Sheep, Rabbit, Goat, Horse, Chicken, Guinea pig, Cow, Cat, Dog, Zebrafish
Immunogen: Synthetic peptide corresponding to Human Adenine Nucleotide Translocase 1/ANT 1 aa 35-84 (N terminal).
Sequence:

Sequence:

LLQVQHASKQISAEKQYKGIDCVVRIPKEQGFLSFWRGNLANVIRYFPT

General notes: Previously labelled as Adenine Nucleotide Translocase 1.

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer: Preservative: 0.09% Sodium azide
Constituents: 2% Sucrose, PBS
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab102032 in the following tested applications.
Catalyzes the exchange of ADP and ATP across the mitochondrial inner membrane.

Defects in SLC25A4 are a cause of progressive external ophthalmoplegia with mitochondrial DNA deletions autosomal dominant type 2 (PEOA2) [MIM:609283]. Progressive external ophthalmoplegia is characterized by progressive weakness of ocular muscles and levator muscle of the upper eyelid. In a minority of cases, it is associated with skeletal myopathy, which predominantly involves axial or proximal muscles and which causes abnormal fatigability and even permanent muscle weakness. Ragged-red fibers and atrophy are found on muscle biopsy. A large proportion of chronic ophthalmoplegias are associated with other symptoms, leading to a multisystemic pattern of this disease. Additional symptoms are variable, and may include cataracts, hearing loss, sensory axonal neuropathy, ataxia, depression, hypogonadism, and parkinsonism.

Sequence similarities
Belongs to the mitochondrial carrier family.
Contains 3 Solcar repeats.

Cellular localization
Mitochondrion inner membrane.

Target

Function
Catalyzes the exchange of ADP and ATP across the mitochondrial inner membrane.

Involvement in disease
Defects in SLC25A4 are a cause of progressive external ophthalmoplegia with mitochondrial DNA deletions autosomal dominant type 2 (PEOA2) [MIM:609283]. Progressive external ophthalmoplegia is characterized by progressive weakness of ocular muscles and levator muscle of the upper eyelid. In a minority of cases, it is associated with skeletal myopathy, which predominantly involves axial or proximal muscles and which causes abnormal fatigability and even permanent muscle weakness. Ragged-red fibers and atrophy are found on muscle biopsy. A large proportion of chronic ophthalmoplegias are associated with other symptoms, leading to a multisystemic pattern of this disease. Additional symptoms are variable, and may include cataracts, hearing loss, sensory axonal neuropathy, ataxia, depression, hypogonadism, and parkinsonism.

Sequence similarities
Belongs to the mitochondrial carrier family.
Contains 3 Solcar repeats.

Cellular localization
Mitochondrion inner membrane.

Images

Anti-Adenine Nucleotide Translocase 1/ANT 1 antibody (ab102032) at 1 µg/ml + RPMI-8226 Cell Lysate at 10 µg

Predicted band size: 33 kDa

12% SDS PAGE
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human pineal tissue labelling Adenine Nucleotide Translocase 1/ANT 1 with ab102032 at 1/100. A Cy3-conjugated donkey anti-rabbit IgG (1/200) was used as the secondary antibody. Positive staining shown in the cytoplasm of cell bodies of pinealocytes and their processes. Magnification: 20X. Exposure time: 0.5 - 2.0 seconds. Bottom left - DAPI. Top right - Adenine Nucleotide Translocase 1. Top left - Merge.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors