


Product datasheet

Anti-ATP-binding cassette sub-family A member 3 antibody ab99856

★★★★★ [2 Abreviews](#) [2 References](#) [1 Image](#)

Overview

Product name	Anti-ATP-binding cassette sub-family A member 3 antibody
Description	Rabbit polyclonal to ATP-binding cassette sub-family A member 3
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Recombinant fragment corresponding to Human ATP-binding cassette sub-family A member 3 aa 1 to the C-terminus. BC062779.1 Database link: Q99758-2
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.02% Sodium azide Constituent: PBS
Purity	Protein A purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab99856 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000 - 1/2000. Predicted molecular weight: 191 kDa.
ICC/IF	★★★★★ (1)	Use at an assay dependent concentration.

Target

Function

Plays an important role in the formation of pulmonary surfactant, probably by transporting lipids such as cholesterol.

Tissue specificity

Highly expressed in lung, followed by brain, pancreas, skeletal muscle and heart. Weakly expressed in placenta, kidney and liver. Also expressed in medullary thyroid carcinoma cells (MTC) and in C-cell carcinoma.

Involvement in disease

Defects in ABCA3 are the cause of pulmonary surfactant metabolism dysfunction type 3 (SMDP3) [MIM:610921]; also called pulmonary alveolar proteinosis due to ABCA3 deficiency. A rare lung disorder due to impaired surfactant homeostasis. It is characterized by alveolar filling with floccular material that stains positive using the periodic acid-Schiff method and is derived from surfactant phospholipids and protein components. Excessive lipoproteins accumulation in the alveoli results in severe respiratory distress.

Sequence similarities

Belongs to the ABC transporter superfamily. ABCA family.
Contains 2 ABC transporter domains.

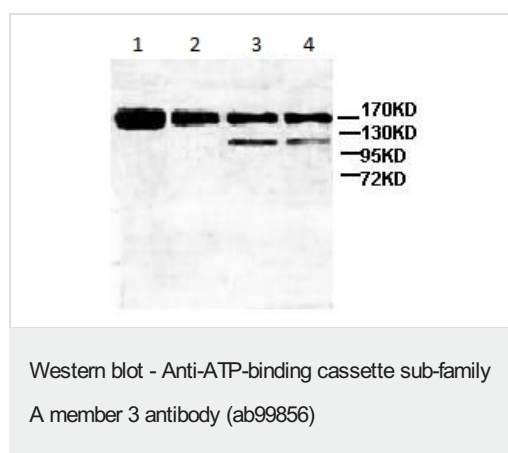
Domain

Multifunctional polypeptide with two homologous halves, each containing an hydrophobic membrane-anchoring domain and an ATP binding cassette (ABC) domain.

Cellular localization

Membrane.

Images



All lanes : Anti-ATP-binding cassette sub-family A member 3 antibody (ab99856) at 1/1000 dilution

Lane 1 : SW480 cell lysate

Lane 2 : Hela cell lysate

Lane 3 : Human fetal kidney lysate

Lane 4 : Human fetal lung lysate

Predicted band size: 191 kDa

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

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