

Anti-ABCE1 Picoband Antibody

Catalog # ABO11638

Specification

Anti-ABCE1 Picoband Antibody - Product Information

Application WB
Primary Accession P61221
Host Rabbit

Reactivity Human, Mouse, Rat

Clonality Polyclonal Lyophilized

Description

Rabbit IgG polyclonal antibody for ATP-binding cassette sub-family E member 1(ABCE1) detection. Tested with WB in Human; Mouse; Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-ABCE1 Picoband Antibody - Additional Information

Gene ID 6059

Other Names

ATP-binding cassette sub-family E member 1, 2'-5'-oligoadenylate-binding protein, HuHP68, RNase L inhibitor, Ribonuclease 4 inhibitor, RNS4I, ABCE1, RLI, RNASEL1, RNASELI, RNS4I

Calculated MW 67314 MW KDa

Application Details

Western blot, 0.1-0.5 μg/ml, Human, Mouse, Rat

Subcellular Localization

Cytoplasm . Mitochondrion . Localized to clusters of virus formation at the plasma membrane.

Protein Name

ATP-binding cassette sub-family E member 1

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen

E. coli-derived human ABCE1 recombinant protein (Position: K419-D599). Human ABCE1 shares 100% amino acid (aa) sequence identity with mouse ABCE1.

Purification

Immunogen affinity purified.

Cross Reactivity



No cross reactivity with other proteins.

Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-ABCE1 Picoband Antibody - Protein Information

Name ABCE1

Synonyms RLI, RNASELI, RNASELI, RNS4I

Function

Nucleoside-triphosphatase (NTPase) involved in ribosome recycling by mediating ribosome disassembly (PubMed: 20122402, PubMed:21448132). Able to hydrolyze ATP, GTP, UTP and CTP (PubMed:20122402). Splits ribosomes into free 60S subunits and tRNA- and mRNA-bound 40S subunits (PubMed: 20122402, PubMed:21448132). Acts either after canonical termination facilitated by release factors (ETF1/eRF1) or after recognition of stalled and vacant ribosomes by mRNA surveillance factors (PELO/Pelota) (PubMed: 20122402, PubMed:21448132). Involved in the No-Go Decay (NGD) pathway: recruited to stalled ribosomes by the Pelota-HBS1L complex, and drives the disassembly of stalled ribosomes, followed by degradation of damaged mRNAs as part of the NGD pathway (PubMed: 21448132). Also plays a role in quality control of translation of mitochondrial outer membrane- localized mRNA (PubMed: 29861391). As part of the PINK1-regulated signaling, ubiquitinated by CNOT4 upon mitochondria damage; this modification generates polyubiquitin signals that recruit autophagy receptors to the mitochondrial outer membrane and initiate mitophagy (PubMed:29861391). RNASEL-specific protein inhibitor which antagonizes the binding of 2-5A (5'-phosphorylated 2',5'-linked oligoadenylates) to RNASEL (PubMed:9660177). Negative regulator of the anti-viral effect of the interferon-regulated 2-5A/RNASEL pathway (PubMed:<a $href="http://www.uniprot.org/citations/11585831" \ target="_blank">11585831, PubMed:9660177, PubMed:<a$ href="http://www.uniprot.org/citations/9847332" target="blank">9847332).

Cellular Location

Cytoplasm. Mitochondrion

Anti-ABCE1 Picoband Antibody - Protocols

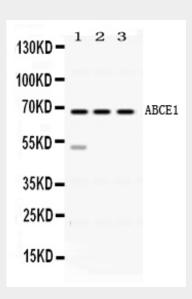
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides



- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-ABCE1 Picoband Antibody - Images



Western blot analysis of ABCE1 expression in rat spleen extract (lane 1), mouse thymus extract (lane 2) and HELA whole cell lysates (lane 3). ABCE1 at 67KD was detected using rabbit anti-ABCE1 Antigen Affinity purified polyclonal antibody (Catalog # ABO11638) at 0.5 ??g/mL. The blot was developed using chemiluminescence (ECL) method .

Anti-ABCE1 Picoband Antibody - Background

ATP binding cassette E1 (ABCE1, also RNase L inhibitor) is an ATPase found in humans involved in viral assembly. It is a member of the ATP-binding cassette (ABC) transporters superfamily and OABP subfamily. ABCE1 inhibits the action of ribonuclease L. Ribonuclease L normally binds to 2-5A (5'-phosphorylated 2',5'-linked oligoadenylates) and inhibits the interferon-regulated 2-5A/RNase L pathway, which is used by viruses. ABCE1 heterodimerize with ribonuclease L and prevents its interaction with 2-5A, antagonizing the anti-viral properties of ribonuclease L, and allow the virus to synthesize viral proteins. It has also been implicated to have an effect in tumorcell proliferation and antiapoptosis.