

## Rabbit ABCE1 Polyclonal Antibody | anti-ABCE1 antibody

Anti-ABCE1 Antibody Picoband

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                                                                                         |
|-----------|--------|-------------------|----------------------------------------------------------------------------------------------------------------------|
| AAA19808  | Rabbit | Human, Mouse, Rat | ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunohistochemistry, Immunocytochemistry, Western Blot |

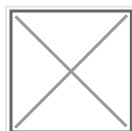
### PRODUCT SYNONYMS

ABCE1; Polyclonal Antibody; Anti-ABCE1 Antibody Picoband; anti-ABCE1 antibody

### PRODUCT SPECIFICATIONS

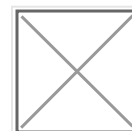
|                                                 |                                                                                                                                                                                                                       |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                                                |
| Reactivity                                      | Human, Mouse, Rat                                                                                                                                                                                                     |
| Clonality                                       | Polyclonal                                                                                                                                                                                                            |
| Purity/Purification                             | Immunogen affinity purified.                                                                                                                                                                                          |
| Form/Format                                     | Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                                |
| Applicable Applications for anti-ABCE1 antibody | ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), IHC (Immunohistochemistry), ICC (Immunocytochemistry), WB (Western Blot)                                                                                   |
| Application Notes                               | WB: 0.25-0.5ug/ml, Human, Mouse, Rat<br>IHC: 2-5ug/ml, Mouse, Rat<br>ICC/IF: 5ug/ml, Human<br>FC/FACS (Fixed): 1-3ug/1x10 <sup>6</sup> cells, Human<br>ELISA: 0.1-0.5ug/ml                                            |
| Immunogen                                       | E coli-derived human ABCE1 recombinant protein (Position: Q141-D599). Human ABCE1 shares 100% amino acid (aa) sequence identity with mouse ABCE1.                                                                     |
| Reconstitution                                  | Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                              |
| Preparation and Storage                         | At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing. |

### IMAGES



#### WB (Western Blot)

Figure 6. Western blot analysis of ABCE1 using anti-ABCE1 antibody (AAA19808). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human HepG2 whole cell lysates, Lane 2: human U20S whole cell lysates, Lane 3: human Jurkat whole cell lysates, Lane 4: mouse 4T1 whole cell lysates, Lane 5: mouse NIH/3T3 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-ABCE1 antigen affinity purified polyclonal antibody (AAA19808) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-DyLight 647 Conjugated secondary antibody at a dilution of 1:2000 for 1.5 hour at RT. A specific band was detected for ABCE1 at approximately 67 kDa. The expected band size for ABCE1 is at 67 kDa.



#### FCM (Flow Cytometry)

Figure 5. Flow Cytometry analysis of U251 cells using anti-ABCE1 antibody (AAA19808). Overlay histogram showing U251 cells stained with AAA19808 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ABCE1 Antibody (AAA19808, 1ug/1x10<sup>6</sup> cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



IF (Immunofluorescence)

Figure 4. IF analysis of ABCE1 using anti-ABCE1 antibody (AAA19808).ABCE1 was detected in an immunocytochemical section of HELA cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent ( epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-ABCE1 Antibody (AAA19808) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit ( epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-ABCE1 Antibody (AAA19808) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Lane 2: human A431 whole cell lysates,Lane 3: human U2OS whole cell lysates,Lane 4: human Jurkat whole cell lysates,Lane 5: rat brain tissue lysates,Lane 6: mouse brain tissue lysates,Lane 7: mouse 4T1 whole cell lysates,Laen 8: mouse NIH/3T3 whole cell lysate.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-ABCE1 antigen affinity purified polyclonal antibody (#AAA19808) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for ABCE1 at approximately 67 kDa. The expected band size for ABCE1 is at 67 kDa.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-ABCE1 antibody | The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.                                                                                                                                                                                                                                                                                                                                                                                |
| Product Categories/Family for anti-ABCE1 antibody   | Primary Antibodies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| References                                          | 1. Aubry, F., Mattei, M.-G., Barque, J.-P., Galibert, F. Chromosomal localization and expression pattern of the RNase L inhibitor gene. FEBS Lett. 381: 135-139, 1996.2. Bisbal, C., Martinand, C., Silhol, M., Lebleu, B., Salehzada, T. Cloning and characterization of a RNase L inhibitor: a new component of the interferon-regulated 2-5A pathway. J. Biol. Chem. 270: 13308-13317, 1995.3. Diriong, S., Salehzada, T., Bisbal, C., Martinand, C., Taviaux, S. Localization of the ribonuclease L inhibitor gene (RNS4I), a new member of the interferon-regulated 2-5A pathway, to 4q31 by fluorecence in situ hybridization. Genomics 32: 488-490, 1996. |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                |
|----------------------------------|----------------------------------------------------------------|
| NCBI GI #                        | 108773784                                                      |
| NCBI GeneID                      | 6059                                                           |
| NCBI Accession #                 | NP_001035809.1                                                 |
| NCBI GenBank Nucleotide #        | NM_001040876.1                                                 |
| UniProt Accession #              | P61221; O88793; Q13181; Q13864; Q6NR76; Q96AL0; Q96B10; Q99K66 |
| Molecular Weight                 | 67,314 Da                                                      |
| NCBI Official Full Name          | ATP-binding cassette sub-family E member 1                     |
| NCBI Official Synonym Full Names | ATP binding cassette subfamily E member 1                      |
| NCBI Official Symbol             | ABCE1                                                          |
| NCBI Official Synonym Symbols    | RLI; OABP; RLI1; ABC38; RNS4I; RNASEL1; RNASELI                |
| NCBI Protein Information         | ATP-binding cassette sub-family E member 1                     |

|                            |                                            |
|----------------------------|--------------------------------------------|
| UniProt Protein Name       | ATP-binding cassette sub-family E member 1 |
| UniProt Gene Name          | ABCE1                                      |
| UniProt Synonym Gene Names | RLI; RNASEL1; RNASELI; RNS4I; RNS4I        |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/abce1-antibody-flow-cytometry-immunofluorescence-immunohistochemistry-immunocytochemistry-western-blot-elisa/19808>