

KD-Validated Anti-ABCE1 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1214**Specification****KD-Validated Anti-ABCE1 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC
Primary Accession	P61221
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 67 kDa , observed, 67 kDa KDa
Gene Name	ABCE1
Aliases	ABCE1; ATP Binding Cassette Subfamily E Member 1; RLI; RNASEL1; RNASELI; RNS4I; OABP; RLI1; ATP-Binding Cassette, Sub-Family E (OABP), Member 1; ATP-Binding Cassette Sub-Family E Member 1; 2'-5'-Oligoadenylate-Binding Protein; Ribonuclease 4 Inhibitor; RNase L Inhibitor 1; HuHP68; Ribonuclease L (2',5'-Oligoisoadenylate Synthetase-Dependent) Inhibitor; RNase L Inhibitor; EC 3.6.5.-; ABC38
Immunogen	A synthesized peptide derived from human ABCE1

KD-Validated Anti-ABCE1 Rabbit Monoclonal Antibody - Additional Information

Gene ID	6059
Other Names	
ATP-binding cassette sub-family E member 1, 3.6.5.-, 2'-5'-oligoadenylate-binding protein, HuHP68, RNase L inhibitor, Ribonuclease 4 inhibitor, RNS4I, ABCE1, RLI, RNASEL1, RNASELI, RNS4I	

KD-Validated Anti-ABCE1 Rabbit Monoclonal Antibody - Protein Information**Name** ABCE1**Synonyms** RLI, RNASEL1, 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:20122402, PubMed:20122402).

[21448132](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/20122402)), PubMed:[21448132](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/21448132)). Also plays a role in quality control of translation of mitochondrial outer membrane- localized mRNA (PubMed:[29861391](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/29861391)). RNASEL-specific protein inhibitor which antagonizes the binding of 2-5A (5'-phosphorylated 2',5'-linked oligoadenylates) to RNASEL (PubMed:[9660177](http://www.uniprot.org/citations/9660177)). Negative regulator of the anti-viral effect of the interferon-regulated 2-5A/RNASEL pathway (PubMed:[11585831](http://www.uniprot.org/citations/11585831)), PubMed:[9660177](http://www.uniprot.org/citations/9660177), PubMed:[9847332](http://www.uniprot.org/citations/9847332)).

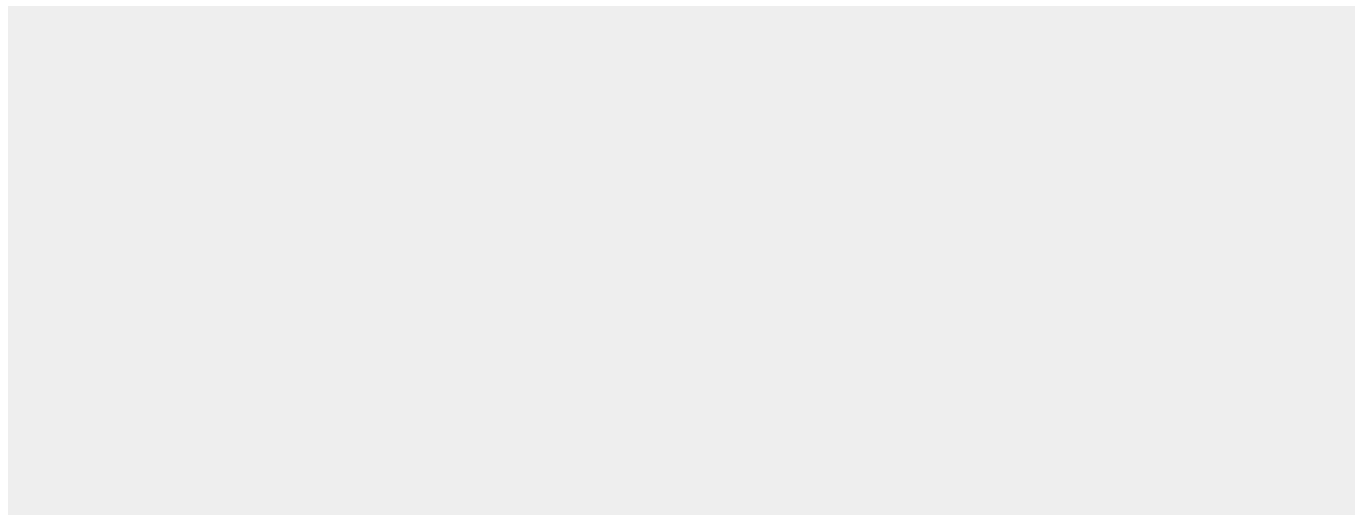
Cellular Location

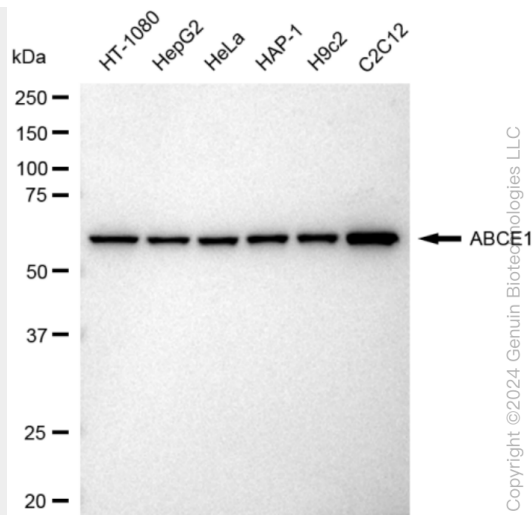
Cytoplasm. Mitochondrion

KD-Validated Anti-ABCE1 Rabbit Monoclonal Antibody - Protocols

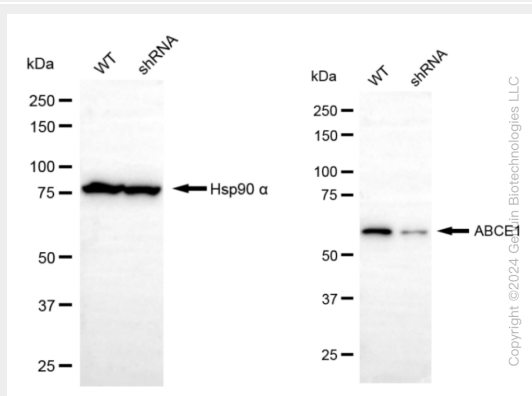
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

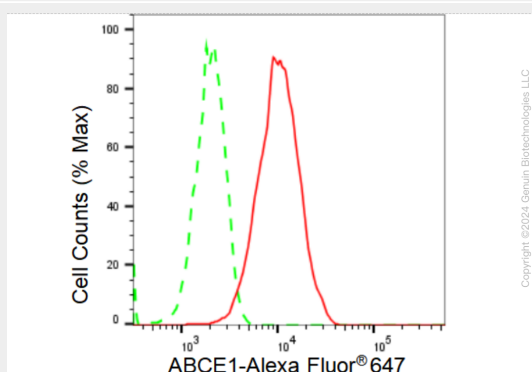
KD-Validated Anti-ABCE1 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-ABCE1 antibody (Cat#AGI1214). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-ABCE1 antibody (Cat#AGI1214, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-ABCE1 antibody (Cat#AGI1214). ABCE1 expression in wild type (WT) and ABCE1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-ABCE1 antibody (Cat#AGI1214, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of ABCE1 expression in C2C12 cells using ABCE1 antibody (Cat#AGI1214, 1:2000). Green, isotype control; red, ABCE1.