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KD-Validated Anti-ABCE1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1214

Product Information

Application	WB, FC
Primary Accession	P61221
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB 3605
Calculated MW	67314
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

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

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: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:11585831, PubMed:9660177, PubMed:9847332).
Cellular Location	Cytoplasm. Mitochondrion

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