

ABCE1 / RNase L Antibody (N-Term)
Peptide-affinity purified goat antibody
Catalog # AF2801a**Specification**

ABCE1 / RNase L Antibody (N-Term) - Product Information

Application	E
Primary Accession	P61221
Other Accession	NP_002931.2 , NP_001035809.1 , 6059 , 24015 (mouse), 361390 (rat)
Predicted	Human, Mouse, Rat, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	67314

ABCE1 / RNase L Antibody (N-Term) - 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

Dilution

E~~N/A

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

ABCE1 / RNase L Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

ABCE1 / RNase L Antibody (N-Term) - 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

ABCE1 / RNase L Antibody (N-Term) - 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](#)

ABCE1 / RNase L Antibody (N-Term) - Images

ABCE1 / RNase L Antibody (N-Term) - Background

Reported variants represent identical protein: NP_002931.2 NP_001035809.1

ABCE1 / RNase L Antibody (N-Term) - References

ABCE1, a member of ATP-binding cassette transporter gene, encodes peptides capable of inducing HLA-A2-restricted and tumor-reactive cytotoxic T lymphocytes in colon cancer patients. Shichijo S, Ishihara Y, Azuma K, Komatsu N, Higashimoto N, Ito M, Nakamura T, Ueno T, Harada M, Itoh K.

Oncol Rep. 2005 May;13(5):907-13. PMID: 15809757