

RTEL1 Antibody (N-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS12177**Specification**

RTEL1 Antibody (N-Terminus) - Product Information

Application	IHC
Primary Accession	O9NZ71
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	134kDa KDa

RTEL1 Antibody (N-Terminus) - Additional Information**Gene ID** 51750**Other Names**

Regulator of telomere elongation helicase 1 {ECO:0000255|HAMAP-Rule:MF_03065}, 3.6.4.12
{ECO:0000255|HAMAP-Rule:MF_03065}, Novel helicase-like, RTEL1
{ECO:0000255|HAMAP-Rule:MF_03065}

Target/Specificity

Synthetic peptide corresponding to N-terminal residues of human RTEL1 (Regulator of telomere elongation helicase 1).

Reconstitution & Storage

Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

Precautions

RTEL1 Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

RTEL1 Antibody (N-Terminus) - Protein Information**Name** RTEL1 {ECO:0000255|HAMAP-Rule:MF_03065}**Function**

ATP-dependent DNA helicase implicated in telomere-length regulation, DNA repair and the maintenance of genomic stability. Acts as an anti-recombinase to counteract toxic recombination and limit crossover during meiosis. Regulates meiotic recombination and crossover homeostasis by physically dissociating strand invasion events and thereby promotes noncrossover repair by meiotic synthesis dependent strand annealing (SDSA) as well as disassembly of D loop recombination intermediates. Also disassembles T loops and prevents telomere fragility by counteracting telomeric G4-DNA structures, which together ensure the dynamics and stability of the telomere.

Cellular Location

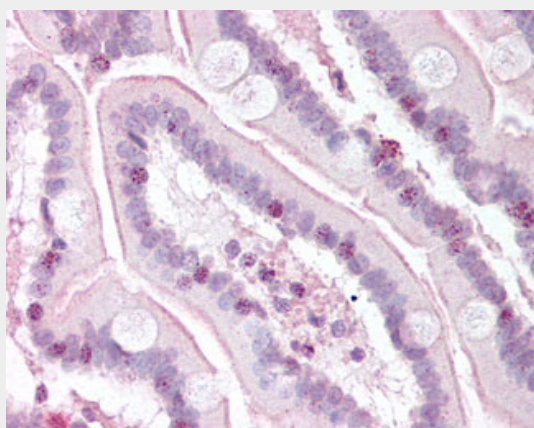
Nucleus {ECO:0000255|HAMAP-Rule:MF_03065, ECO:0000269|PubMed:23585563}.
Note=Colocalizes with PCNA within the replication foci in S-phase cells.
{ECO:0000255|HAMAP-Rule:MF_03065}

RTEL1 Antibody (N-Terminus) - 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](#)

RTEL1 Antibody (N-Terminus) - Images



Anti-RTEL1 antibody IHC of human small intestine.

RTEL1 Antibody (N-Terminus) - Background

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RTEL1 Antibody (N-Terminus) - References

Bai C.,et al.Proc. Natl. Acad. Sci. U.S.A. 97:1230-1235(2000).
Kikuno R.,et al.DNA Res. 6:197-205(1999).
Nakajima D.,et al.DNA Res. 9:99-106(2002).
Ohara O.,et al.Submitted (FEB-2012) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).