

RTEL1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP57292

Product Information

Application	IHC-P, IHC-F, IF, ICC
Primary Accession	Q9NZ71
Reactivity	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	133683

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}
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	RTEL1 {ECO:0000255 HAMAP-Rule:MF_03065}
Function	A probable 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}

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.