



Rabbit Anti-phospho-ATRIP (Ser68+Ser72) antibody

SL11224R

Product Name:	phospho-ATRIP (Ser68+Ser72)
Chinese Name:	磷酸化系统性红斑狼疮先关蛋白TREX1抗体
Alias:	ATRIP (phospho S68 + S72); Phospho-ATRIP (Ser68 + Ser72); P-ATRIP (phospho-Ser68/Ser72); AGS 1; AGS1; AGS-1; Aicardi Goutieres syndrome 1; ATIP; ATM and Rad3 related interacting protein; ATM and Rad3-related-interacting protein; ATR interacting protein; ATR-interacting protein; Atrip; ATRIP_HUMAN; Deoxyribonuclease III dnaQ/mutD (E. coli) like; DKFZp434J0310; DKFZp762J2115; DNase III; DRN 3; DRN3; FLJ12343; MGC20625; MGC26740; Three prime repair exonuclease 1; TREX 1; TREX1; TREX1 protein; MGC21482; 3' repair exonuclease 1; 3'-5' exonuclease TREX1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	86kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthesised phosphopeptide derived from human ATRIP around the phosphorylation site of Ser68 + Ser72:LA(p-S)QAL(p-S)QC
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized

	antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	<p>DNA damage or incomplete replication of DNA results in the inhibition of cell cycle progression at the G1 to S or the G2 to M phase transition by conserved regulatory mechanisms known as cell cycle checkpoints. Checkpoint proteins include Rad17, which is involved in regulating cell cycle progression at the G1 checkpoint as well as Chk1, Chk2, Rad1, Rad9 and Hus1, which are involved in regulating cell cycle arrest at the G2 checkpoint. In response to DNA damage, ATM and ATR kinases are important for cell cycle checkpoint response signalling. ATR-interacting protein (ATRIP), also designated ATM and Rad3-related-interacting protein, is required for checkpoint signaling after DNA damage. It is also important for ATR expression, which regulates DNA replication and damage checkpoint responses. ATRIP is a ubiquitously expressed protein that can form heterodimers with ATR. After dimerization they bind the RPA complex and are recruited to single stranded DNA. ATRIP is a nuclear protein that may also play a role in protein stabilization.</p> <p>Function: Required for checkpoint signaling after DNA damage. Required for ATR expression, possibly by stabilizing the protein.</p> <p>Subunit: Interacts with ATR. Heterodimer with ATR. The heterodimer binds the RPA complex and is then recruited to single stranded DNA. Interacts with CEP164 (via N-terminus). Interacts with CINP.</p> <p>Subcellular Location: Nucleus. Redistributes to discrete nuclear foci upon DNA damage.</p> <p>Tissue Specificity: Ubiquitous.</p> <p>Post-translational modifications: Phosphorylated by ATR.</p> <p>Similarity: Belongs to the ATRIP family.</p> <p>SWISS: Q8WXE1</p> <p>Gene ID: 84126</p> <p>Database links:</p>

[Entrez Gene: 84126](#)Human

[Entrez Gene: 235610](#)Mouse

[Entrez Gene: 301014](#)Rat

[Omim: 606605](#)Human

[SwissProt: Q8WXE1](#)Human

[SwissProt: Q8BMG1](#)Mouse

[Unigene: 694840](#)Human

[Unigene: 100622](#)Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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