
Product Name: ATRIP Rabbit Polyclonal Antibody**Catalog #: APRab07353**

For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ICC/IF,ELISA
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:5000-1:10000
Molecular Weight	80kDa

Antigen Information

Gene Name	ATRIP
Alternative Names	ATRIP; AGS1; ATR-interacting protein; ATM and Rad3-related-interacting protein
Gene ID	84126.0
SwissProt ID	Q8WXE1
Immunogen	The antiserum was produced against synthesized peptide derived from human ATRIP. AA range:34-83

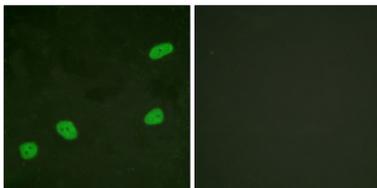
Background

This gene encodes an essential component of the DNA damage checkpoint. The encoded protein binds to single-stranded

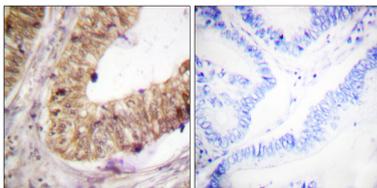
DNA coated with replication protein A. The protein also interacts with the ataxia telangiectasia and Rad3 related protein kinase, resulting in its accumulation at intranuclear foci induced by DNA damage. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2012],caution:The gene for this protein is either identical to or adjacent to that of TREX1. Some of the mRNAs that encode ATRIP also encode TREX1 in another reading frame.,domain:The EEXXXDDL motif is required for the interaction with catalytic subunit PRKDC and its recruitment to sites of DNA damage.,function:Required for checkpoint signaling after DNA damage. Required for ATR expression, possibly by stabilizing the protein.,PTM:Phosphorylated by ATR.,sequence caution:Translation N-terminally extended.,similarity:Belongs to the ATRIP family.,subcellular location:Redistributes to discrete nuclear foci upon DNA damage.,subunit:Heterodimer with ATR. The heterodimer binds the RPA complex and is then recruited to single stranded DNA. Interacts with CEP164 (via N-terminus),tissue specificity:Ubiquitous.,

Research Area

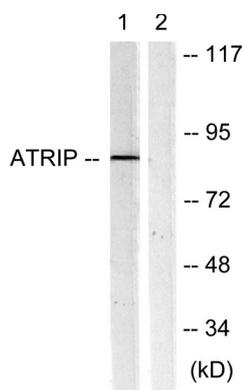
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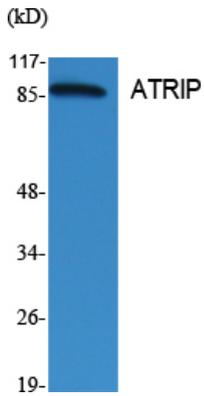
Immunofluorescence analysis of HeLa cells, using ATRIP Antibody. The picture on the right is blocked with the synthesized peptide.



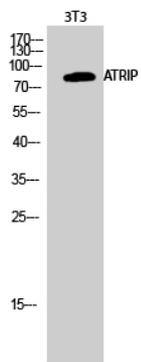
Immunohistochemistry analysis of paraffin-embedded human colon carcinoma tissue, using ATRIP Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from NIH/3T3 cells, using ATRIP Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using ATRIP Polyclonal Antibody.



Western Blot analysis of 3T3 cells using ATRIP Polyclonal Antibody.