



ATRIP Polyclonal Antibody

Catalog No	YP-Ab-16662
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	ATRIP
Immunogen	The antiserum was produced against synthesized peptide derived from human ATRIP. AA range:34-83
Specificity	ATRIP Polyclonal Antibody detects endogenous levels of ATRIP protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/5000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	AGS 1;AGS1;ATM and Rad3-related-interacting protein;ATR-interacting protein;DRN 3;ATRIP
Observed Band	80kD
Calculated Molecular Weight	80kD
Cell Pathway	Nucleus . Redistributes to discrete nuclear foci upon DNA damage.
Tissue Specificity	Ubiquitous.
Function	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.,

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],

matters needing attention

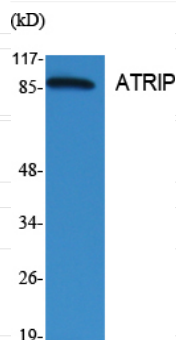
Avoid repeated freezing and thawing!

Usage suggestions

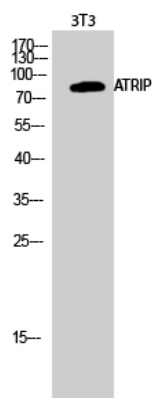
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



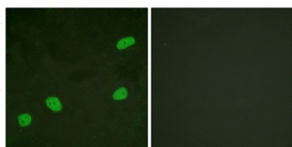
Products Images



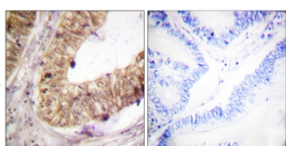
Western Blot analysis of various cells using ATRIP Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA).



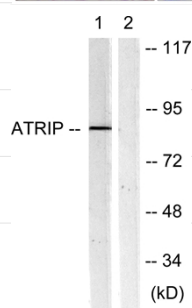
Western Blot analysis of 3T3 cells using ATRIP Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA).



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.