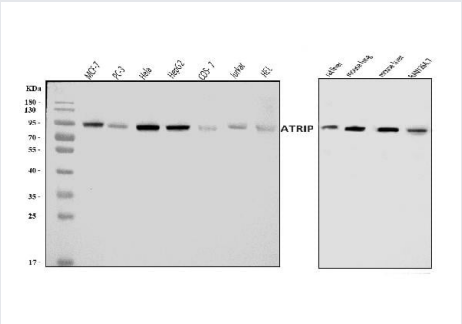
ATRIP Antibody – Rabbit Polyclonal

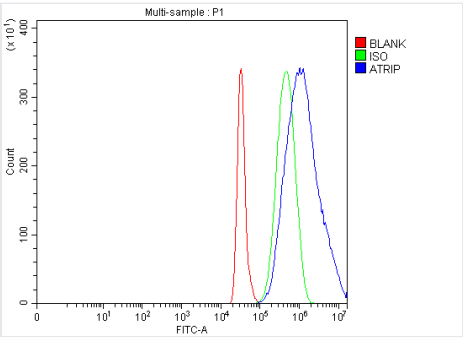
PRODUCT OVERVIEW

Product Name	ATRIP, Polyclonal Antibody
Full Product Name	Anti-ATRIP Antibody Picoband
Product Gene Name	anti-ATRIP antibody
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat, Monkey
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (lot specific)
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.
Molecular Weight	85,838 Da
Chromosome Location	Chromosome: 3; NC_000003.11 (48488114..48507054). Location: 3p21.31
OMIM	606605
3D Structure	ModBase 3D Structure for Q8WXE1
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human ATRIP recombinant protein (Position: K109-D782).
Product Categories/Family for anti-ATRIP antibody	Primary Antibodies, Rabbit Polyclonal Antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-ATRIP antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunofluorescence (IF), Flow Cytometry (FC/FACS), ELISA (EIA)
Application Notes for anti-ATRIP antibody	WB: 0.1-0.25 ug/ml, Human, Mouse, Rat, Monkey ICC/IF: 5 ug/ml, Human FC/FACS: 1-3 ug/1x10^6 cells, Human Direct ELISA: 0.1-0.5 ug/ml, Human Tested Species: In-house tested species with positive results. Enhanced Chemiluminescent Kit with anti-Rabbit IgG (#MBS176460) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (#MBS176453) for ICC.
Related Product Information for anti-ATRIP antibody	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.
Other Notes	Small volumes of anti-ATRIP antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

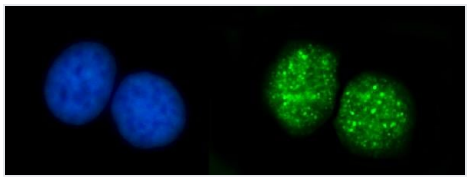
Searchable Terms for ATRIP purchase	MBS1755286 is an antibody targeting ATRIP. Also known as Anti-ATRIP Antibody Picoband. Reactive in Human, Mouse, Rat, Monkey. Host: Rabbit.



Western Blot (WB) of anti-ATRIP antibody
Figure 1. Western blot analysis of ATRIP using anti-ATRIP antibody (MBS1755286).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human MCF-7 whole cell lysates,Lane 2: human PC-3 whole cell lysates,Lane 3: human Hela whole cell lysates,Lane 4: human HepG2 whole cell lysates,Lane 5: monkey COS-7 whole cell lysates,Lane 6: human Jurkat whole cell lysates,Lane 7: human HEL whole cell lysates,Lane 8: rat liver tissue lysates,Lane 9: mouse lung tissue lysates,Lane 10: mouse liver tissue lysates,Lane 11: mouse RAW264.7 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-ATRIP antigen affinity purified polyclonal antibody (#MBS1755286) at 0.25 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for ATRIP at approximately 86-90 kDa. The expected band size for ATRIP is at 86 kDa.



Flow Cytometry (FC/FACS) of anti-ATRIP antibody
Figure 3. Flow Cytometry analysis of HepG2 cells using anti-ATRIP antibody (MBS1755286).Overlay histogram showing HepG2 cells stained with MBS1755286 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ATRIP Antibody (MBS1755286, 1 ug/1x10^6 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (MBS177405, 5-10 ug/1x10^6 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



Immunofluorescence (IF) of anti-ATRIP antibody
Figure 2. IF analysis of ATRIP using anti-ATRIP antibody (MBS1755286).ATRIP was detected in an immunocytochemical section of HeLa cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-ATRIP Antibody (MBS1755286) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG (MBS177405) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ATRIP. It may not necessarily be applicable to this product.

NCBI GI #	402534571
NCBI GeneID	84126
NCBI Accession #	NP_001257951.1
UniProt Primary Accession #	Q8WXE1
UniProt Secondary Accession #	Q69YK9; Q8NHQ2; Q8WUG7; Q96CL3; Q9HA30; A8K6A3; A8K714; B2RCE7

UniProt Related Accession #	Q8WXE1
GenBank Nucleotide #	NM_001271022.1
NCBI Official Full Name	ATR-interacting protein isoform 3
NCBI Official Synonym Full Names	ATR interacting protein
NCBI Official Symbol	ATRIP
UniProt Protein Name	ATR-interacting protein
UniProt Synonym Protein Names	ATM and Rad3-related-interacting protein
Protein Family	ATR-interacting protein
UniProt Gene Name	ATRIP
UniProt Synonym Gene Names	AGS1
UniProt Entry Name	ATRIP_HUMAN
NCBI Protein Information	ATR-interacting protein; ATM and Rad3-related-interacting protein
UniProt Comments for ATRIP	ATRIP: is required for checkpoint signaling after DNA damage. Required for ATR expression, possibly by stabilizing the protein. Heterodimerizes with ATR. The heterodimer binds replication protein A (RPA), a protein complex that subsequently is recruited to single stranded DNA (ssDNA). Its EEXXXDDL motif is required for the interaction with catalytic subunit of DNA-PK and its recruitment to sites of DNA damage. e for this protein is either identical to or adjacent to that of ATRIP. Some of the mRNAs that encode ATRIP also encode TREX1 in another reading frame. Three alternatively spliced human isoforms have been reported. Protein type: DNA repair, damage; DNA-binding; Cell cycle regulation Chromosomal Location of Human Ortholog: 3p21.31 Cellular Component: nucleoplasm; nucleus Molecular Function: protein binding Biological Process: DNA damage checkpoint; DNA repair; DNA replication
Research Articles on ATRIP	**1.** Data indicate that ATRIP is a direct target gene of HIF-1, and the increased ATRIP then activates the ATR signaling pathway under hypoxia.
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