

## Anti-ATM Mouse mAb

Purified Recombinant Mouse Monoclonal Antibody

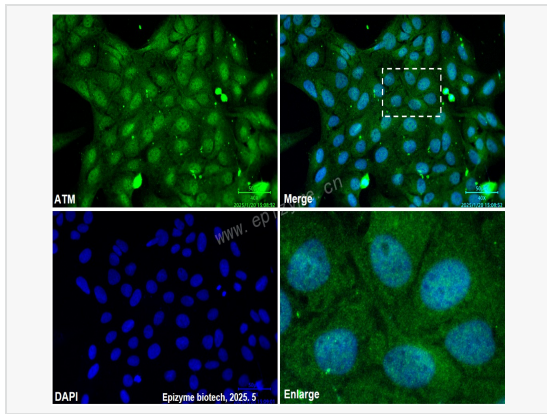
Catalog # M900037

### Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Mouse
Clonality	Monoclonal
Clone No.	33N66Q96
Isotype	IgG1
Label	Unconjugated
Immunogen	Recombinant protein of human CD63
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-ATM Mouse mAb [33N66Q96] is for research use only and not for use in diagnostic or therapeutic procedures.

### Protein Information

Synonyms	A-T mutated; A-T mutated homolog; AT mutated; AT1; ATA; Ataxia telangiectasia mutated; Ataxia telangiectasia mutated gene; Ataxia telangiectasia mutated homolog (human); Ataxia telangiectasia mutated homolog; ATC; ATD; ATDC; ATE; ATM; ATM serine/threonine kinase; ATM_HUMAN; DKFZp781A0353; MGC74674; OTTHUMP00000232981; Serine protein kinase ATM; Serine-protein kinase ATM; Serine/threonine-protein kinase ATM; Tefu; TEL1; TEL1, telomere maintenance 1, homolog; TELO1; Telomere fusion protein.
Calculated MW	Calculated MW: 350 kDa; Observed MW: 350 kDa
Uniprot ID	Q13315
Gene ID	472
Background	The protein encoded by this gene belongs to the PI3/PI4-kinase family. This protein is an important cell cycle checkpoint kinase that phosphorylates; thus, it functions as a regulator of a wide variety of downstream proteins, including tumor suppressor proteins p53 and BRCA1, checkpoint kinase CHK2, checkpoint proteins RAD17 and RAD9, and DNA repair protein NBS1. This protein and the closely related kinase ATR are thought to be master controllers of cell cycle checkpoint signaling pathways that are required for cell response to DNA damage and for genome stability. Mutations in this gene are associated with ataxia telangiectasia, an autosomal recessive disorder. [provided by RefSeq, Aug 2010]
Cellular Location	Nucleus. Cytoplasmic vesicle. Primarily nuclear. Found also in endocytic vesicles in association with beta-adaptin.
Tissue Location	Found in pancreas, kidney, skeletal muscle, liver, lung, placenta, brain, heart, spleen, thymus, testis, ovary, small intestine, colon and leukocytes.



Immunofluorescence - Anti-ATM Mouse mAb [33N66Q96]

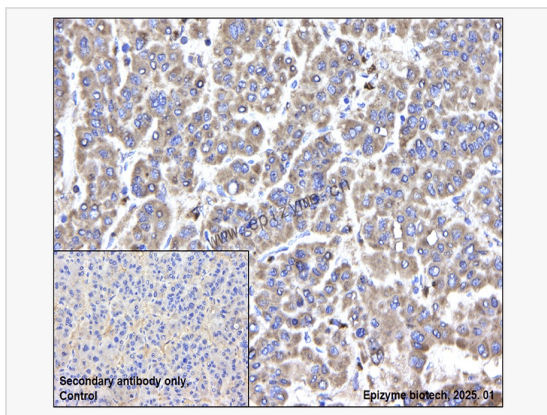
Sample: HeLa cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: M900037 at 1:100 dilution

Secondary antibodies: Goat anti-Mouse (488) (Cat. No. LF107) at 1:1,000 dilution (shown in green)

Nuclei were stained with DAPI (shown in blue).



Immunohistochemistry - Anti-ATM Mouse mAb [33N66Q96]

Sample: Paraformaldehyde-fixed, paraffin embedded human hepatoma cancer tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

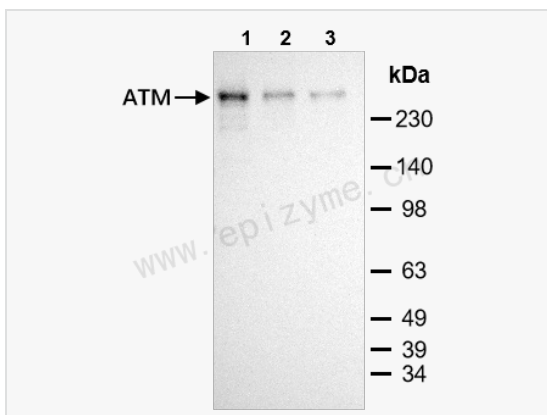
Primary antibody: M900037 at 1:200 dilution

Secondary antibody: Goat Anti-Mouse IgG (H+L), HRP conjugated at 1:1,000 dilution DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Western Blot - Anti-ATM Mouse mAb [33N66Q96]

All lanes: M900037 at 1:2,000 dilution

Lane 1: U2OS (Human osteosarcoma epithelial cell) whole cell lysates

Lane 2: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 3: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates

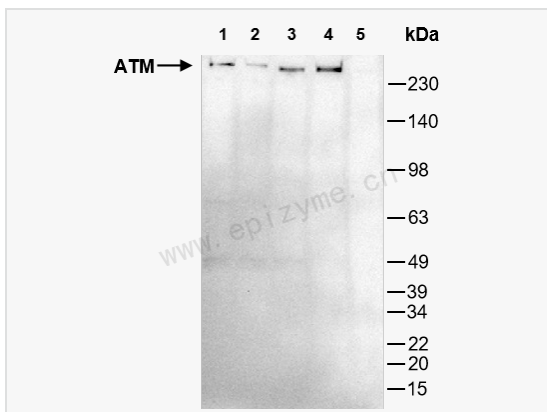
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Mouse IgG (H+L), HRP Conjugated (Cat. No. LF101) at 1:5,000 dilution

Predicted band size: 350 kDa

Observed band size: 350 kDa

Developed using the ECL technique (Cat. No. SQ201).



Western Blot - Anti-ATM Mouse mAb [33N66Q96]

All lanes: M900037 at 1:2,000 dilution

Lane 1: 293T (Human embryonic kidney cell) whole cell lysates

Lane 2: U2OS (Human osteosarcoma epithelial cell) whole cell lysates

Lane 3: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 4: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates

Lane 5: He1 ( Human erythroLeukemia suspension cell) whole cell lysates

Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Mouse IgG (H+L), HRP Conjugated (Cat. No. LF101) at 1:5,000 dilution

Predicted band size: 350 kDa

Observed band size: 350 kDa

Developed using the ECL technique (Cat. No. SQ201).