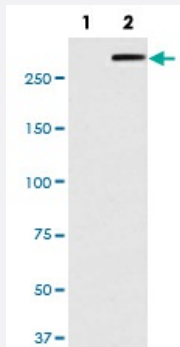


ATM (phospho S1981) monoclonal antibody, clone AEE-1

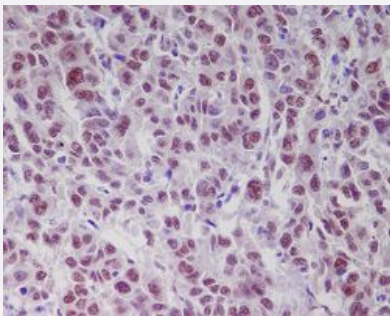
Catalog # MAB20332 Size 100 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of ATM (phospho S1981) expression in (1) HEK293 cell lysate; (2) HEK293 cell lysate treated with Doxorubicin.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of paraffin-embedded human liver with ATM (phospho S1981) monoclonal antibody.

Specification

Product Description	Rabbit monoclonal antibody raised against synthetic phosphopeptide of human ATM.
Immunogen	A synthetic phosphopeptide corresponding to residues surrounding S1981 of human ATM.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Affinity purification
Isotype	IgG

Recommend Usage	Immunocytochemistry (1:50-1:200) Immunofluorescence (1:50-1:200) Immunohistochemistry (1:50-1:200) Immunoprecipitation (1:50) Western Blot (1:500-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150 mM NaCl, pH 7.4 (50% glycerol, 0.4-0.5 mg/mL BSA, 0.02% sodium azide).
Storage Instruction	Store at -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

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Immunohistochemical staining of paraffin-embedded human liver with ATM (phospho S1981) monoclonal antibody.

- Immunocytochemistry

- Immunofluorescence

- Immunoprecipitation

Gene Info — ATM

Entrez GeneID	472
Protein Accession#	Q13315
Gene Name	ATM
Gene Alias	AT1, ATA, ATC, ATD, ATDC, ATE, DKFZp781A0353, MGC74674, TEL1, TELO1
Gene Description	ataxia telangiectasia mutated

Omim ID [114480 208900 607585](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The protein encoded by this gene belongs to the PI3/P4-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. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Other Designations

AT mutated|TEL1, telomere maintenance 1, homolog|ataxia telangiectasia mutated (includes complementation groups A, C and D)|ataxia telangiectasia mutated protein|human phosphatidylinositol 3-kinase homolog|serine-protein kinase ATM

Pathway

- [Apoptosis](#)
- [Cell cycle](#)
- [p53 signaling pathway](#)

Disease

- [Acute Disease](#)
- [Adenocarcinoma](#)
- [Ataxia telangiectasia](#)
- [Atherosclerosis](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Chromosome Aberrations](#)

- [Cocarcinogenesis](#)
- [Colorectal Neoplasms](#)
- [Diabetes Mellitus](#)
- [DNA Damage](#)
- [Edema](#)
- [Endometrial Neoplasms](#)
- [Esophageal Neoplasms](#)
- [Fibrosis](#)
- [Genetic Predisposition to Disease](#)
- [Glioma](#)
- [Hodgkin Disease](#)
- [Hypercholesterolemia](#)
- [Hypertension](#)
- [Kidney Failure](#)
- [Leukemia](#)
- [Lung Neoplasms](#)
- [Lymphatic Metastasis](#)
- [Lymphoma](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Micronuclei](#)
- [Mouth Neoplasms](#)
- [Neoplasms](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pancreatic cancer](#)

- [Pancreatic Neoplasms](#)
- [Precancerous Conditions](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Pulmonary Disease](#)
- [Radiation Injuries](#)
- [Radiation Pneumonitis](#)
- [Radiodermatitis](#)
- [Schizophrenia](#)
- [Silicosis](#)
- [Small Cell Lung Carcinoma](#)
- [Spinocerebellar ataxia](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)