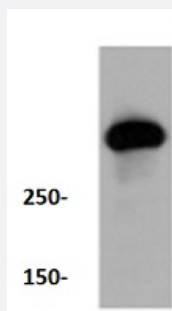


RecomAb™

ATM recombinant monoclonal antibody

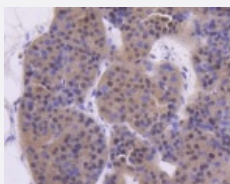
Catalog # RAB02726 Size 100 uL

Applications



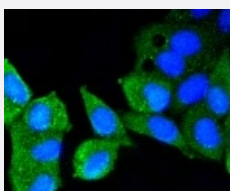
Western Blot (Cell lysate)

Western blot analysis of Lane1: CRC whole cell lysate with ATM recombinant monoclonal antibody (Cat # RAB02726) at 1:1000 dilution.



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

Immunohistochemical analysis of paraffin-embedded human liver cancer tissue using ATM recombinant monoclonal antibody (Cat # RAB02726). Counter stained with hematoxylin.



Immunocytochemistry

Immunocytochemical staining of HeLa cells using ATM recombinant monoclonal antibody (Cat # RAB02726)(green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton *100/PBS.

Specification

Product Description

Rabbit recombinant monoclonal antibody raised against ATM.

Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant ATM.
Theoretical MW (kDa)	370
Reactivity	Human
Specificity	This antibody detects endogenous levels of ATM and does not cross-react with related proteins.
Form	Liquid
Purification	Protein A purification
Isotype	IgG
Recommend Usage	Immunocytochemistry (1:50-1:200) Immunofluorescence (1:50-1:200) Immunohistochemistry (1:50-1:200) Western Blot (1:1000-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.2 (50% glycerol and 0.02% sodium azide)
Storage Instruction	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of Lane1:CRC whole cell lysate with ATM recombinant monoclonal antibody (Cat # RAB02726) at 1:1000 dilution.

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Immunohistochemical analysis of paraffin-embedded human liver cancer tissue using ATM recombinant monoclonal antibody (Cat # RAB02726). Counter stained with hematoxylin.

- Immunocytochemistry

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- Immunofluorescence

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](#)