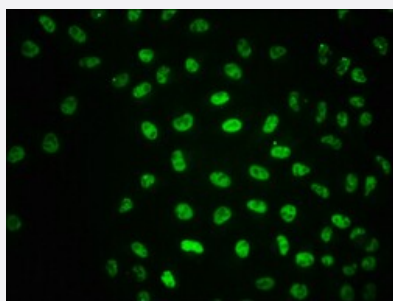


RecomAb™

ATM (phospho S1981) recombinant monoclonal antibody, clone 1C5

Catalog # RAB04291 Size 100 uL

Applications



Immunofluorescence

Immunofluorescent staining of Hela cells with ATM (phospho S1981) recombinant monoclonal antibody, clone 1C5 (Cat # RAB04291) (diluted at 1:100). The secondary antibody was Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Counter-stain DAPI was used (blue).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human ATM.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic phosphopeptide corresponding to residues surrounding S1981 of human ATM.
Reactivity	Human
Form	Liquid
Purification	Affinity chromatography
Isotype	IgG
Recommend Usage	ELISA Immunofluorescence (1:20-1:200) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)

Storage Instruction

Store at -20 °C or -80 °C.
Aliquot to 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

- Immunofluorescence

Immunofluorescent staining of Hela cells with ATM (phospho S1981) recombinant monoclonal antibody, clone 1C5 (Cat # RAB04291) (diluted at 1:100). The secondary antibody was Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Counter-stain DAPI was used (blue).

- Enzyme-linked Immunoabsorbent Assay

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](#)