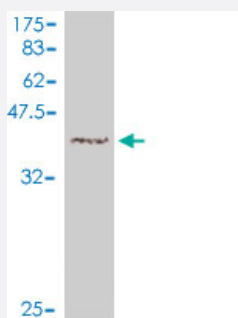


ATM polyclonal antibody (A01)

Catalog # H00000472-A01

Size 50 uL

Applications



Western Blot detection against Immunogen (37.11 KDa) .

Specification

Product Description	Mouse polyclonal antibody raised against a partial recombinant ATM.
Immunogen	ATM (AAH07023, 1 a.a. ~ 100 a.a) partial recombinant protein with GST tag.
Sequence	MTLHEPANSSASQSTDLCDLDPAPNPPHFPSHVVKATFAYISNCHKTKLKSILEILSKSPDS YQKILLAICEQAAETNNVYKKHRILKMYHLFVSL
Host	Mouse
Reactivity	Human
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.11 KDa) .
Storage Buffer	50 % glycerol
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- ELISA

Gene Info — ATM

Entrez GeneID [472](#)

GeneBank Accession# [BC007023](#)

Protein Accession# [AAH07023](#)

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

Publication Reference

- [MicroRNA-181a Functions as an Oncomir in Gastric Cancer by Targeting the Tumour Suppressor Gene ATM.](#)

Zhang X, Nie Y, Li X, Wu G, Huang Q, Cao J, Du Y, Li J, Deng R, Huang D, Chen B, Li S, Wei B.

Pathology Oncology Research 2014 Apr; 20(2):381.

Application: WB-Tr, Human, HEK 293T cells

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](#)