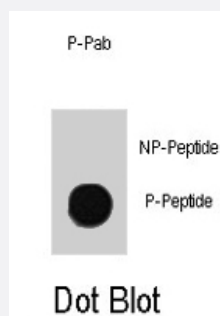


# ATM (phospho S1981) polyclonal antibody

Catalog # PAB1656      Size 400 uL

## Applications



### Dot Blot (Peptide)

Dot blot analysis of ATM (phospho S1981) polyclonal antibody (Cat # PAB1656) on nitrocellulose membrane. 50 ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed.

## Specification

|                            |                                                                                                                        |
|----------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b> | Rabbit polyclonal antibody raised against synthetic phosphopeptide of ATM.                                             |
| <b>Immunogen</b>           | Synthetic phosphopeptide (conjugated with KLH) corresponding to residues surrounding S1981 of human ATM.               |
| <b>Host</b>                | Rabbit                                                                                                                 |
| <b>Reactivity</b>          | Human                                                                                                                  |
| <b>Form</b>                | Liquid                                                                                                                 |
| <b>Purification</b>        | Protein A purification                                                                                                 |
| <b>Recommend Usage</b>     | Dot Blot (1:500)<br>The optimal working dilution should be determined by the end user.                                 |
| <b>Storage Buffer</b>      | In PBS (0.09% sodium azide)                                                                                            |
| <b>Storage Instruction</b> | Store at 4°C. For long term storage store at -20°C.<br>Aliquot to avoid repeated freezing and thawing.                 |
| <b>Note</b>                | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |

## Applications

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## Gene Info — ATM

Entrez GeneID [472](#)

Protein Accession# [NP\\_000042: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

## Publication Reference

- [ATM germline mutations in Spanish early-onset breast cancer patients negative for BRCA1/BRCA2 mutations.](#)

Brunet J, Gutierrez-Enriquez S, Torres A, Berez V, Sanjose S, Galceran J, Izquierdo A, Menendez JA, Guma J, Borras J. Clinical Genetics 2008 Apr; 73(5):465.

- [Functional interaction between FOXO3a and ATM regulates DNA damage response.](#)

Tsai WB, Chung YM, Takahashi Y, Xu Z, Hu MC.

Nature Cell Biology 2008 Apr; 10(4):460.

Application: Flow Cyt, IF, WB-Ce, Human, HEK 293T, MCF-7 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](#)