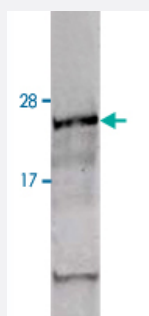


ATM (phospho S1981) polyclonal antibody

Catalog # PAB19950 Size 100 ug

Applications



Western Blot (Cell lysate)

Western blot analysis of hydrogen peroxide stimulated human derived MCF-7 whole cell lysate with ATM (phospho S1981) polyclonal antibody (Cat # PAB19950).

Specification

Product Description	Sheep polyclonal antibody raised against synthetic phosphopeptide of ATM.
Immunogen	Synthetic phosphopeptide corresponding to residues surrounding S1981 of human ATM.
Host	Sheep
Reactivity	Human
Specificity	This polyclonal anti-ATM antibody recognizes the phosphorylated epitope in native and over-expressed proteins found in various tissues and extracts. Reactivity is observed against human ATM and cross reactivity with ATM from other mammalian sources has not been tested.
Form	Liquid
Purification	Affinity purification
Recommend Usage	ELISA (1:2000-1:10000) Western Blot (1:500-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM KH ₂ PO ₄ , 150 mM NaCl, pH 7.2 (0.01% sodium azide)

Storage Instruction

Store at 4°C. For long term storage store at -20°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

- Western Blot (Cell lysate)

Western blot analysis of hydrogen peroxide stimulated human derived MCF-7 whole cell lysate with ATM (phospho S1981) polyclonal antibody (Cat # PAB19950).

- Enzyme-linked Immunoabsorbent Assay

Gene Info — ATM

Entrez GeneID[472](#)**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](#)