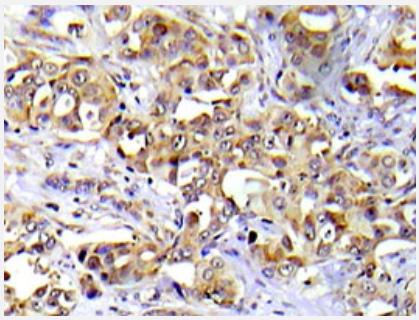
ATM polyclonal antibody

Catalog # PAB25017 Size 100 uL

Applications



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

Immunohistochemistry analysis of paraffin-embedded human lung adenocarcinoma tissue with ATM polyclonal antibody (Cat # PAB25017).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of ATM.
Immunogen	A synthetic peptide corresponding to ATM.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Antigen affinity purification
Concentration	1 mg/mL
Purity	> 95% by SDS-PAGE
Recommend Usage	Immunohistochemistry (1:50-1:200) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (0.05% 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 shoul d be handled by trained staff only.

Applications

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

  Immunohistochemistry analysis of paraffin-embedded human lung adenocarcinoma tissue with ATM polyclonal antibody (Cat # PAB25017).

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/PI4-kinase family. This protein is an importa nt cell cycle checkpoint kinase that phosphorylates; thus, it functions as a regulator of a wide variet y of downstream proteins, including tumor suppressor proteins p53 and BRCA1, checkpoint kinas e 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 signali ng pathways that are required for cell response to DNA damage and for genome stability. Mutatio ns in this gene are associated with ataxia telangiectasia, an autosomal recessive disorder. Two tr anscript 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 com plementation groups A, C and D)|ataxia telangiectasia mutated protein|human phosphatidylinosit ol 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