

## Product datasheet for **AP20965PU-M**

### ATM Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	<b>Immunohistochemistry on paraffin sections</b> 1/50 - 1/200.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 1957-2006 of Human ATM.
Specificity:	This antibody detects endogenous levels of ATM protein. (region surrounding Ile1987)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity chromatography (> 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 350 kDa
Gene Name:	ATM serine/threonine kinase
Database Link:	<a href="#">Entrez Gene 472 Human Q13315</a>

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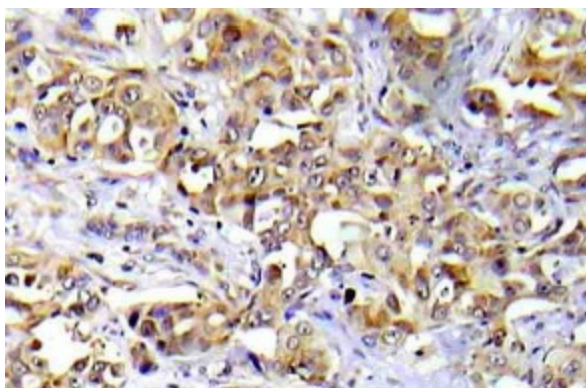
**Background:** The phosphatidylinositol kinase (PIK) family members fall into two distinct subgroups. The first subgroup contains proteins such as the PI 3- and PI 4- kinases and the second group comprises the PIK-related kinases. The PIK-related kinases include Atm, DNA-PKCS and FRAP. These proteins have in common a region of homology at their carboxy-termini that is not present in the PI 3- and PI 4-kinases. The Atm gene is mutated in the autosomal recessive disorder ataxia telangiectasia (AT) that is characterized by cerebellar degeneration (ataxia) and the appearance of dilated blood vessels (telangiectases) in the conjunctivae of the eyes. AT cells are hypersensitive to ionizing radiation, impaired in mediating the inhibition of DNA synthesis and display delays in p53 induction.

**Synonyms:** Serine-protein kinase ATM, Ataxia telangiectasia mutated, A-T mutated, ATDC, TEL1, TELO1

**Protein Families:** Druggable Genome, Protein Kinase, Transcription Factors

**Protein Pathways:** Apoptosis, Cell cycle, p53 signaling pathway

### Product images:



Immunohistochemistry (IHC) analyzes of ATM antibody in paraffin-embedded human lung adenocarcinoma tissue.