

## Product datasheet for **AP12919PU-N**

### ATM pSer1981 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Recommended Dilution:	ELISA: 1/1,000. Dot Blot: 1/500.
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	This antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S1981 of human ATM.
Specificity:	This antibody detects ABL pSer1981.
Formulation:	PBS with 0.09% (W/V) Sodium Azide as preservative. State: Aff - Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Protein A Chromatography followed by two-step phosphospecific peptide affinity purification.
Conjugation:	Unconjugated
Storage:	Store the antibody 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.
Gene Name:	ATM serine/threonine kinase
Database Link:	<a href="#">Entrez Gene 472 Human Q13315</a>



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**Background:**

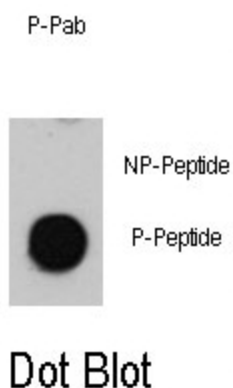
ATM belongs to the PI3/PI4-kinase family. This protein is an important cell cycle checkpoint kinase that phosphorylates; thus, it functions as a regulator of a wide variety of downstream proteins, including tumor suppressor proteins p53 and BRCA1, checkpoint kinase CHK2, checkpoint proteins RAD17 and RAD9, and DNA repair protein NBS1. ATM 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 the gene encoding ATM are associated with ataxia telangiectasia, an autosomal recessive disorder.

**Synonyms:**

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

**Note:**

**Molecular weight:** 350644 Da

**Product images:**

Dot blot analysis of anti-Phospho-ATM-pS1981 Antibody (Cat.#AP12919PU-N) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5ug per ml.