

## ATM RABBIT PAB

**Cat.#:** S221629

**Product Name:** Anti-ATM Rabbit Polyclonal Antibody

**Synonyms:** ATI; ATA; ATC; ATD; ATE; ATDC; TEL1; TELO1

**UNIPROT ID:** Q13315 (Gene Accession - NP\_000042 )

**Background:** The protein encoded by this gene 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. 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.

**Immunogen:** Synthetic peptide of human ATM

**Applications:** ELISA, IHC

**Recommended Dilutions:** IHC: 40-200; ELISA: 5000-10000

**Host Species:** Rabbit

**Clonality:** Rabbit Polyclonal

**Isotype:** Immunogen-specific rabbit IgG

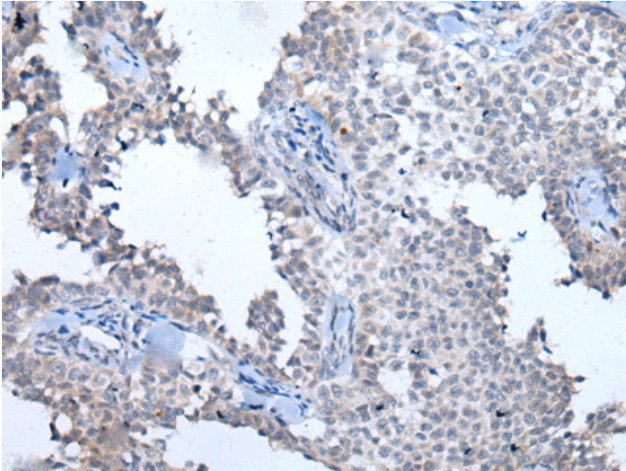
**Purification:** Antigen affinity purification

**Species Reactivity:** Human

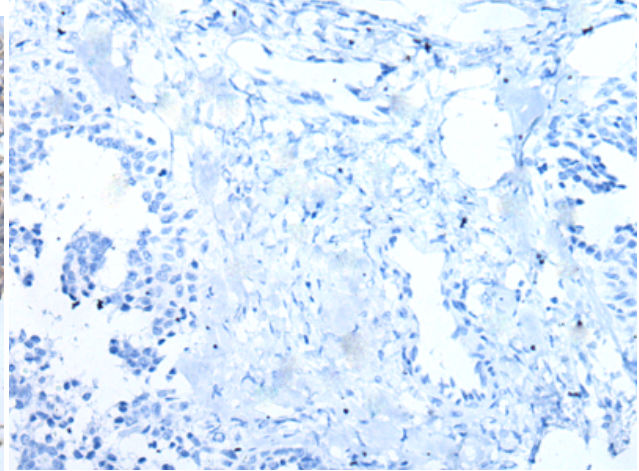
**Constituents:** PBS (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150 mM NaCl, 0.05% Sodium Azide and 40% glycerol

**Research Areas:** Epigenetics and Nuclear Signaling, Cancer

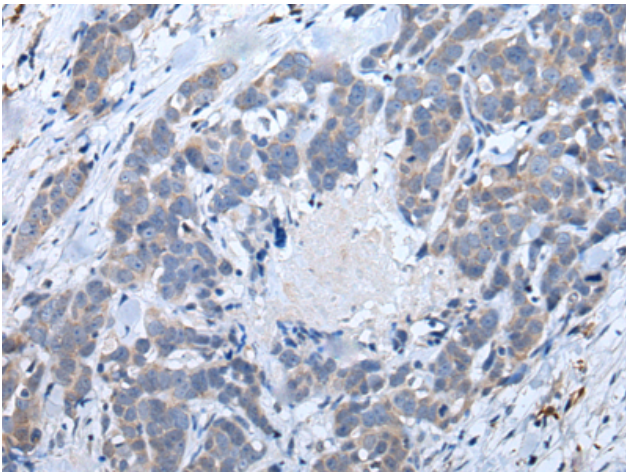
**Storage & Shipping:** Store at -20°C. Avoid repeated freezing and thawing



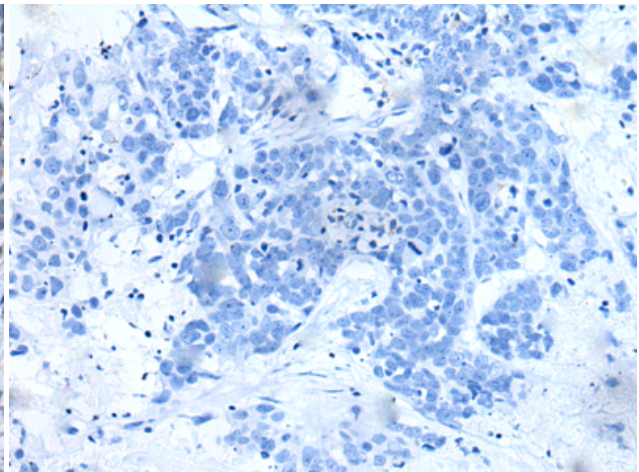
Immunohistochemistry analysis of paraffin embedded Human ovarian cancer tissue using 221629(ATM Antibody) at a dilution of 1/65(Nucleus or Cytoplasm).



In comparison with the IHC on the left, the same paraffin-embedded Human ovarian cancer tissue is first treated with the synthetic peptide and then with 221629(Anti-ATM Antibody) at dilution 1/65.



The image on the left is immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using 221629(Anti-ATM Antibody) at a dilution of 1/65.



In comparison with the IHC on the left, the same paraffin-embedded Human thyroid cancer tissue is first treated with synthetic peptide and then with D263304(Anti-ATM Antibody) at dilution 1/65.