# Anti-ATM antibody

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|---|---|
| **Cat. No.** | ml163304 |
| **Package** | 25 μl/100 μl/200 μl |
| **Storage** | -20°C, pH7.4 PBS, 0.05% NaN3, 40% Glycerol |

**Product overview**

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| **Description** | Anti-ATM rabbit polyclonal antibody |
| **Applications** | ELISA, IHC |
| **Immunogen** | Synthetic peptide of human ATM |
| **Reactivity** | Human |
| **Content** | 0.7 mg/ml |
| **Host species** | Rabbit |
| **Ig class** | Immunogen-specific rabbit IgG |
| **Purification** | Antigen affinity purification |

**Target information**

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|---|---|
| **Symbol** | ATM |
| **Full name** | ATM serine/threonine kinase |
| **Synonyms** | AT1; ATA; ATC; ATD; ATE; ATDC; TEL1; TELO1 |
| **Swissprot** | Q13315 |

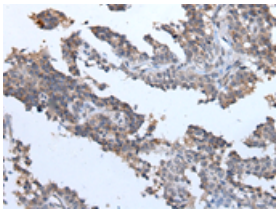
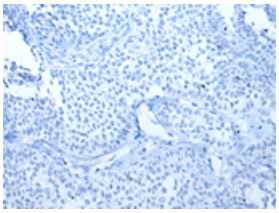
**Target Background**

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.

**Applications**

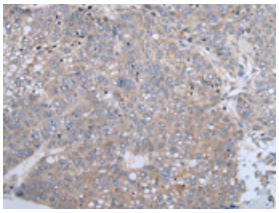
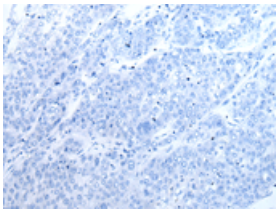
**Immunohistochemistry**

Predicted cell location: Nucleus or Cytoplasm
Positive control: Human ovarian cancer
Recommended dilution: 20-100

The image on the left is immunohistochemistry of paraffin-embedded Human ovarian cancer tissue using ml163304(ATM Antibody) at dilution 1/30, on the right is treated with synthetic peptide. (Original magnification: ×200)

Predicted cell location: Nucleus or Cytoplasm
Positive control: Human liver cancer
Recommended dilution: 20-100

The image on the left is immunohistochemistry of paraffin-embedded Human liver cancer tissue using ml163304(ATM Antibody) at dilution 1/30, on the right is treated with synthetic peptide. (Original magnification: ×200)

**ELISA**

Recommended dilution: 5000-10000

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