

## Rabbit anti-Human, Mouse ATM Polyclonal Antibody | anti-ATM antibody

Phospho-ATM (Ser1981) Antibody

|                               |                       |                                   |                                            |
|-------------------------------|-----------------------|-----------------------------------|--------------------------------------------|
| CATALOG #<br><b>AAA329773</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse</b> | APPLICATIONS<br><b>ELISA, Western Blot</b> |
|-------------------------------|-----------------------|-----------------------------------|--------------------------------------------|

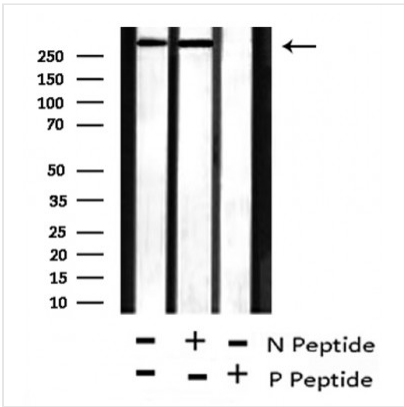
### PRODUCT SYNONYMS

ATM; Polyclonal Antibody; Phospho-ATM (Ser1981) Antibody; A-T mutated; A-T mutated homolog; AT mutated; AT1; ATA; Ataxia telangiectasia mutated; Ataxia telangiectasia mutated gene; Ataxia telangiectasia mutated homolog (human); Ataxia telangiectasia mutated homolog; ATC; ATD; ATDC; ATE; ATM serine/threonine kinase; ATM\_HUMAN; DKFZp781A0353; MGC74674; OTTHUMP00000232981; Serine protein kinase ATM; Serine-protein kinase ATM; Serine/threonine-protein kinase ATM; Tefu; TEL1; telomere maintenance 1; homolog; TELO1; Telomere fusion protein; anti-ATM antibody

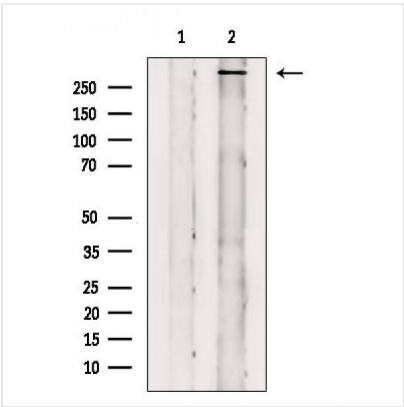
### PRODUCT SPECIFICATIONS

|                                               |                                                                                                      |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------|
| Host                                          | Rabbit                                                                                               |
| Reactivity                                    | Human, Mouse                                                                                         |
| Clonality                                     | Polyclonal                                                                                           |
| Isotype                                       | Rabbit IgG                                                                                           |
| Specificity                                   | Phospho-ATM (Ser1981) Antibody detects endogenous levels of ATM only when phosphorylated at Ser1981. |
| Purity/Purification                           | Peptide affinity purification                                                                        |
| Form/Format                                   | Phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                   |
| Concentration                                 | 1mg/ml (varies by lot)                                                                               |
| Applicable Applications for anti-ATM antibody | ELISA (Peptide ELISA), WB (Western Blot)                                                             |
| Immunogen                                     | A synthesized peptide derived from human ATM around the phosphorylation site of Ser1981.             |
| Conjugation                                   | Unconjugated                                                                                         |
| Fragment                                      | Fab fragment                                                                                         |
| Preparation and Storage                       | Store at -20 degree C. Stable for 12 months from date of receipt.                                    |

IMAGES



**WB (Western Blot)**  
Western blot analysis of ATM (Phospho-Ser1981) using UV treated NIH-3T3 whole cell lysates. -/+ means absence or presence of N peptide/non-phospho peptide) and P peptide(phospho peptide).



**WB (Western Blot)**  
Western blot analysis of extracts from B16F10 cells(H2O2 treatment), using Phospho-ATM (Ser1981) Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-ATM antibody | Serine/threonine protein kinase which activates checkpoint signaling upon double strand breaks (DSBs), apoptosis and genotoxic stresses such as ionizing ultraviolet A light (UVA), thereby acting as a DNA damage sensor. Recognizes the substrate consensus sequence [ST]-Q. Phosphorylates 'Ser-139' of histone variant H2AX at double strand breaks (DSBs), thereby regulating DNA damage response mechanism. Also plays a role in pre-B cell allelic exclusion, a process leading to expression of a single immunoglobulin heavy chain allele to enforce clonality and monospecific recognition by the B-cell antigen receptor (BCR) expressed on individual B-lymphocytes. |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                                           |
|----------------------------------|-------------------------------------------------------------------------------------------|
| NCBI GI #                        | 187951615                                                                                 |
| NCBI GeneID                      | 472                                                                                       |
| UniProt Accession #              | Q13315; O15429; Q12758; Q16551; Q93007; Q9NP02; Q9UCX7; B2RNX5                            |
| Molecular Weight                 | 350kd                                                                                     |
| NCBI Official Full Name          | Ataxia telangiectasia mutated                                                             |
| NCBI Official Synonym Full Names | ataxia telangiectasia mutated                                                             |
| NCBI Official Symbol             | ATM                                                                                       |
| NCBI Official Synonym Symbols    | AT1; ATA; ATC; ATD; ATE; ATDC; TEL1; TELO1                                                |
| NCBI Protein Information         | serine-protein kinase ATM; AT mutated; A-T mutated; TEL1, telomere maintenance 1, homolog |
| UniProt Protein Name             | Serine-protein kinase ATM                                                                 |
| UniProt Gene Name                | ATM                                                                                       |
| UniProt Synonym Gene Names       | A-T mutated                                                                               |
| UniProt Entry Name               | ATM_HUMAN                                                                                 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.