

Rabbit ATM Polyclonal Antibody | anti-ATM antibody

Anti-ATM antibody

CATALOG # AAA44930	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Western Blot
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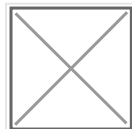
PRODUCT SYNONYMS

ATM; Polyclonal Antibody; Anti-ATM antibody; Serine-protein kinase ATM; ataxia telangiectasia mutated; A-T mutated antibody; A-T mutated homolog antibody; AT complementation group A antibody; AT complementation group C antibody; AT complementation group D antibody; AT complementation group E antibody; AT mutated antibody; AT protein antibody; AT1 antibody; ATA antibody; Ataxia telangiectasia gene mutated in human beings antibody; Ataxia telangiectasia mutated antibody; Ataxia telangiectasia mutated gene antibody; Ataxia telangiectasia mutated homolog(human) antibody; Ataxia telangiectasia mutated homolog antibody; ATC antibody; ATD antibody; ATDC antibody; ATE antibody; ATM antibody; ATM_HUMAN antibody; DKFZp781A0353 antibody; Human phosphatidylinositol 3 kinase homolog antibody; MGC74674 antibody; OTTHUMP00000232981 antibody; Serine protein kinase ATM antibody; Serine-protein kinase ATM antibody; Serine/threonine-protein kinase ATM antibody; T cell prolymphocytic leukemia antibody; Tefu antibody; TEL1 antibody; TEL1; telomere maintenance 1; homolog antibody; TELO1 antibody; Telomere fusion protein antibody; TPLL antibody; anti-ATM antibody

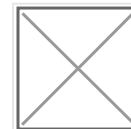
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized
Sequence Length	3056
Applicable Applications for anti-ATM antibody	WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human ATM (36-50aa DPETIKHLDRHSDSK), different from the related rat and mouse sequences by two amino acids.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES


WB (Western Blot)

Anti-ATM antibody, AAA44930, Western blotting Lane 1: HELA Cell Lysate Lane 2: SMMC Cell Lysate Lane 3: U87 Cell Lysate Lane 4: A549 Cell Lysate Lane 5: MCF-7 Cell Lysate


WB (Western Blot)

Anti-ATM antibody, AAA44930, Western blotting Lane 1: Rat Testis Tissue Lysate Lane 2: U87 Cell Lysate Lane 3: MCF-7 Cell Lysate

ADDITIONAL INFORMATION

Related Product Information for anti-ATM antibody	Description: Rabbit IgG polyclonal antibody for Serine-protein kinase ATM(ATM) detection. Tested with WB in Human, Mouse, Rat. Background: ATM(ataxia telangiectasia mutated),also known as TEL1 or Telo1, is a serine/threonine protein kinase that is recruited and activated by DNA double-strand breaks. The ATM protein is a member of the phosphatidylinositol 3-kinase family of proteins that respond to DNA damage by phosphorylating key substrates involved in DNA repair and/or cell cycle control. Linkage analysis of ataxia-telangiectasia led to mapping of the ATM gene to chromosome 11q22.3. Using an antiserum developed to a peptide corresponding to the deduced amino acid sequence of ATM, the ATM protein is a single, high molecular weight protein predominantly confined to the nucleus of human fibroblasts, although it is present in both nuclear and microsomal fractions from human lymphoblast cells and peripheral blood lymphocytes. Overexpression of ATM cDNA in AT cells enhanced their survival after radiation exposure, decreased radiation-induced chromosome aberrations, reduced radioresistant DNA synthesis, and partially corrected defective cell cycle checkpoints and induction of stress-activated protein kinase. ATM has an essential role in the reconstitutive capacity of hematopoietic stem cells but is not as important for the proliferation or differentiation of progenitors, in a telomere-independent manner. ATM functions directly in the repair of chromosomal DNA double-stranded breaks by maintaining DNA ends in repair complexes generated during lymphocyte gene assembly.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	575773389
NCBI GeneID	472
UniProt Accession #	Q13315; O15429; Q12758; Q16551; Q93007; Q9NP02; Q9UCX7; B2RNX5
Molecular Weight	350,687 Da
NCBI Official Full Name	Serine-protein kinase ATM
NCBI Official Synonym Full Names	ATM serine/threonine kinase
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; ataxia telangiectasia 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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/atm-antibody-western-blot-elisa/44930>