

Mouse anti-Human, Mouse ATM phospho Ser1981 Antibody | anti-ATM antibody

AbFlex ATM phospho Ser1981 antibody (rAb)

CATALOG # AAA60273	HOST Mouse	REACTIVITY Human, Mouse	APPLICATIONS Western Blot, Dot Blot
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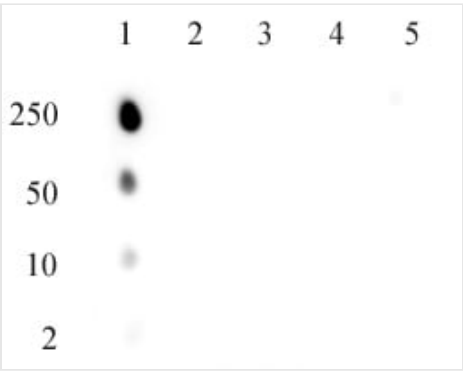
PRODUCT SYNONYMS

ATM phospho Ser1981; AbFlex ATM phospho Ser1981 antibody (rAb); ATM Serine/Threonine Kinase; Ataxia Telangiectasia Mutated 2 3 4 A-T Mutated; Ataxia Telangiectasia Mutated; AT1; ATA; ATC; ATD; ATE; ATDC; TEL1; TELO1; anti-ATM antibody

PRODUCT SPECIFICATIONS

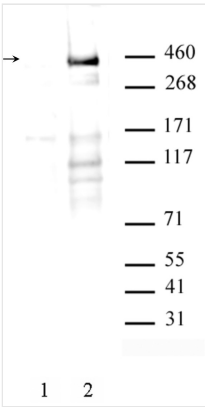
Host	Mouse
Reactivity	Human, Mouse
Isotype	IgG2a
Purity/Purification	Protein A Chromatography
Form/Format	Purified IgG in 140mM Hepes, pH7.5, 70mM NaCl, 32mM NaOAc, 0.035% sodium azide, 30% glycerol. Sodium azide is highly toxic.
Concentration	1ug/ul (varies by lot)
Applicable Applications for anti-ATM antibody	WB (Western Blot), DB (Dot Blot)
Antibody Type	Recombinant Antibody
Conjugation	Phosphorylated
Immunogen	This antibody was raised against A peptide surrounding phosph-serine 1981 of human ATM (Ataxia telangiectasia mutated).
Preparation and Storage	Some products may be shipped at room temperature. This will not affect their stability or performance. Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -20 degree C for up to 2 years. Keep all reagents on ice when not in storage.1ug/ul

IMAGES



DB (Dot Blot)

AbFlex ATM phospho Ser1981 antibody specificity Dot blot analysis was used to confirm the specificity of ATM phospho Ser1981 antibody. Single-stranded DNA oligonucleotides (amount of oligo in nanograms listed on the left side of the blot) were spotted on to a positively charged nylon membrane and blotted with antibody (0.5 ug/ml dilution). 1: ATM phospho serine 1981 (SLAFEEG(Sph)QSTTISS) 2: H2AX phospho serine 139 (CKATQA[Sph]QEY) 3: ATM unmodified serine 1981 (SLAFEEGSQSTTISS) 4: NBS phospho serine 343 (CPGPSL[Sph]QGVs) 5: BRCA1 phospho serine 1423 (LEQHG[Sph]QNSNC



WB (Western Blot)

AbFlex ATM phospho Ser1981 antibody (rAb) tested by Western blot. 20 ug HeLa nuclear extract (high salt preparation) untreated (lane 1) or treated with VP16 at 100 uM for 8 hrs (Lane 2), probed with 1 ug/ml ATM phospho Ser1981 antibody. For optimal results, primary antibody incubations should be performed at room temperature. The addition of 0.1% Tween 20 to all Blotto solutions may also reduce background. Individual optimization may be required.

ADDITIONAL INFORMATION

Related Product Information for anti-ATM antibody	Short Description: AbFlex antibodies are recombinant antibodies (rAbs) that have been generated using defined DNA sequences to produce highly specific, reproducible antibodies. Each AbFlex antibody contains a 6xHis-tag, a Biotinylation Tag for enzymatic biotin conjugation using the biotin ligase, BirA, and a sortase recognition motif (LPXTG) to attach a variety of labels directly to the antibody including fluorophores, enzymatic substrates (HRP, AP), peptides, drugs as well as solid supports. Our AbFlex ATM phospho Ser1981 antibody (rAb) was raised in a Mouse host. It has been validated for use in Dot blot and Western blot; it has been shown to react with Human and Mouse samples. Background: AbFlex antibodies are recombinant antibodies (rAbs) that have been generated using defined DNA sequences to produce highly specific, reproducible antibodies. Each AbFlex antibody contains a 6xHis-tag, a Biotinylation Tag for enzymatic biotin conjugation using the biotin ligase, BirA, and a sortase recognition motif (LPXTG) to attach a variety of labels directly to the antibody including fluorophores, enzymatic substrates (HRP, AP), peptides, drugs as well as solid supports. ATM-Ataxia Telangiectasia Mutated is a PI3-family protein kinase and a critical cell cycle checkpoint protein. ATM and a related protein, ATR, play crucial roles in the maintenance of genome integrity and the response to DNA damage. Upon activation, ATM phosphorylates itself at serine 1981 and then phosphorylates a number of downstream proteins (e.g. BRCA1, CHK2, H2AX, p53, NBS1, SMC1) resulting in cell cycle arrest and the initiation of DNA damage repair. Loss of function of ATM is causal to a variety of syndromes involving increased incidence of several cancers.
Product Categories/Family for anti-ATM antibody	Primary Antibodies

NCBI AND UNIPROT INFORMATION

Molecular Weight	370kDa
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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/mouse-human-mouse-antibody/atm-phospho-ser1981/60273>