

Rabbit anti-Human ATM-S1981 Monoclonal Antibody | anti-ATM antibody

Phospho-ATM-S1981 Rabbit mAb

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA283123	Rabbit	Human	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

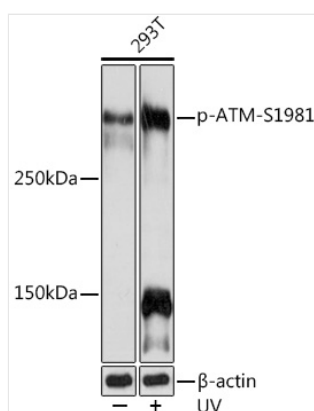
PRODUCT SYNONYMS

ATM-S1981; Monoclonal Antibody; Phospho-ATM-S1981 Rabbit mAb; AT1; ATA; ATC; ATD; ATE; ATDC; TEL1; TELO1; Phospho-ATM-S1981; anti-ATM antibody

PRODUCT SPECIFICATIONS

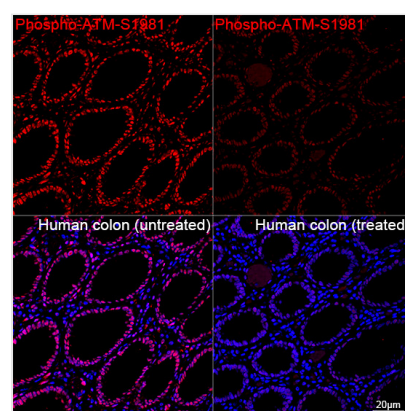
Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.
Sequence	EGSQS
Applicable Applications for anti-ATM antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthetic phosphorylated peptide around S1981 of human ATM (Q13315).
Modification	Phospho S1981
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.

IMAGES



WB (Western Blot)

Western blot analysis of lysates from 293T cells, using Phospho-ATM-S1981 Rabbit mAb (AAA283123) at 1:1000 dilution. 293T cells were treated by UV at room temperature for 15-30 minutes. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% BSA. Detection: ECL Enhanced Kit (RM00021). Exposure time: 3min.



ICC (Immunocytochemistry)

Confocal imaging of paraffin-embedded Human colon tissue (untreated) and Human colon tissue (treated with ?pp) using Phospho-ATM-S1981 Rabbit mAb (AAA283123, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.

ADDITIONAL INFORMATION

Related Product Information for anti-ATM antibody	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.
Product Categories/Family for anti-ATM antibody	Epigenetics Nuclear Signaling; Epigenetic writers and erasers of core Histones; DNA Damage Repair; Protein phosphorylation; Cancer; Tumor suppressors; Signal Transduction; Kinase; Serine threonine kinases; ATM Signaling Pathway; Cell Biology Developmental

NCBI AND UNIPROT INFORMATION

NCBI GI #	187951615
NCBI GeneID	472
UniProt Accession #	Q13315; O15429; Q12758; Q16551; Q93007; Q9NP02; Q9UCX7; B2RNX5
Molecular Weight	Calculated MW: 351kDa Observed MW: 350kDa
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/monoclonal/atm-s1981-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/283123>