

ATM (Phospho-S1981) Rabbit mAb

Catalog No: #13432

Package Size: #13432-1 50ul #13432-2 100ul

Description

Product Name	ATM (Phospho-S1981) Rabbit mAb
Host Species	Rabbit
Clonality	Monoclonal
Clone No.	JM93-25
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC
Species Reactivity	Hu, Ms
Immunogen Description	Synthetic phospho-peptide corresponding to residues surrounding Ser1981 of human ATM.
Conjugates	Unconjugated
Other Names	A-T mutated antibody A-T mutated homolog antibody AT mutated antibody AT1 antibody ATA 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 serine/threonine kinase antibody ATM_HUMAN antibody DKFZp781A0353 antibody MGC74674 antibody OTTHUMP00000232981 antibody Serine protein kinase ATM antibody Serine-protein kinase ATM antibody Serine/threonine-protein kinase ATM antibody Tefu antibody TEL1 antibody TEL1, telomere maintenance 1, homolog antibody TELO1 antibody Telomere fusion protein antibody
Accession No.	Swiss-Prot#:Q13315
Calculated MW	Predicted band size: 351 kDa
SDS-PAGE MW	Observed band size: 351 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

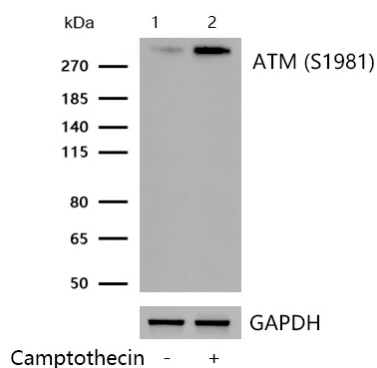
Application Details

WB: 1:500-1:2000

ICC/IF: 1:50-1:200

IHC: 1:50-1:200

Images



All lanes : ATM (Phospho-S1981) Rabbit mAb at 1/1k dilution

Lane 1 : Hela whole cell lysates

Lane 2 : Hela treated with 1 μ M Camptothecin for 1 hour whole cell lysates

Lysates/proteins at 20 μ g per lane.

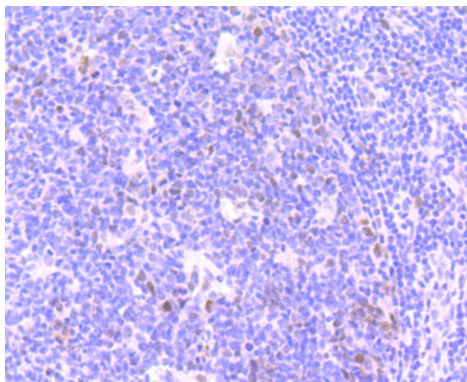
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilution

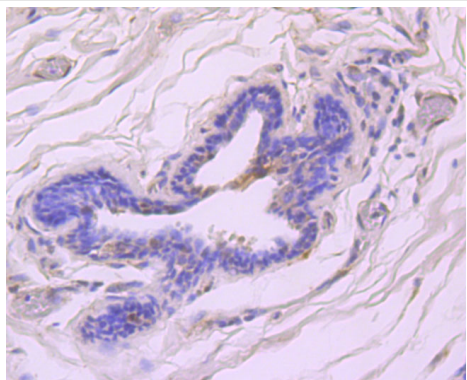
Predicted band size: 351 kDa

Observed band size: 351 kDa

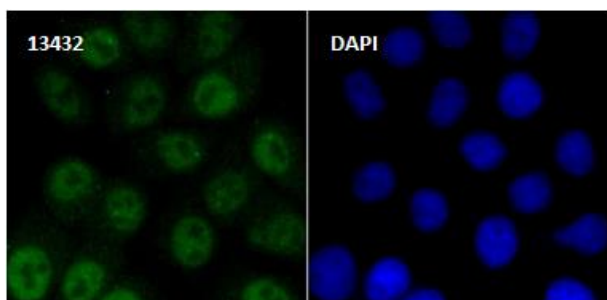
Exposure time: 10 seconds



Formalin-fixed, paraffin-embedded human tonsil tissue stained for ATM (Phospho-S1981) using 13432 at 1/100 dilution in immunohistochemical analysis.



Formalin-fixed, paraffin-embedded human breast cancer tissue stained for ATM (Phospho-phospho S1981) using 13432 at 1/100 dilution in immunohistochemical analysis.



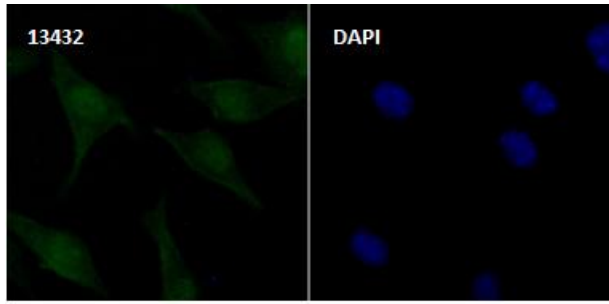
Immunocytochemistry/ Immunofluorescence ATM (Phospho-S1981) antibody (13432)

ICC/IF staining of ATM (Phospho- S1981) in HepG2 cells.

Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100.

Samples were incubated with 13432 at a working dilution of 1/100. The secondary antibody was Alexa FluorB 488 goat anti rabbit, used at a dilution of 1/500.

Nuclei were counterstained with DAPI.



Immunocytochemistry/ Immunofluorescence ATM (Phospho-phospho S1981) antibody (13432)
 ICC/IF staining of ATM (Phospho-phospho S1981) in SH-SY5Y cells. Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100. Samples were incubated with 13432 at a working dilution of 1/100. The secondary antibody was Alexa FluorB 488 goat anti rabbit, used at a dilution of 1/500. Nuclei were counterstained with DAPI.

Background

Serine / threonine protein kinase which activates checkpoint signaling upon double strand breaks (DSBs), apoptosis and genotoxic stresses such as ionizing ultraviolet A light (UVA), thus acting as a DNA damage sensor. Recognizes the substrate consensus sequence [ST] -Q. Phosphorylates 'Ser-139' of histone variant H2AX / H2AFX at double strand breaks (DSBs), recover equilibrium 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. After the introduction of DNA breaks by the RAG complex on one immunoglobulin allele, acts by mediating a repositioning of the second allele to pericentromeric heterochromatin , Soaccessability to the RAG complex and recombination of the second allele. Also involved in signal transduction and cell cycle control. May function as A genre of activation of ABL1 and SAPK. May play a role in vesicle and / or protein transport. Could play A role in T-cell development, gonad and neurological function. Plays a role in replication-dependent histone mRNA degradation. Binds DNA ends.

References

Note: This product is for in vitro research use only and is not intended for use in humans or animals.