Product Datasheet

ATM (phospho S1981) Rabbit mAb

Catalog No: #13432

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

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

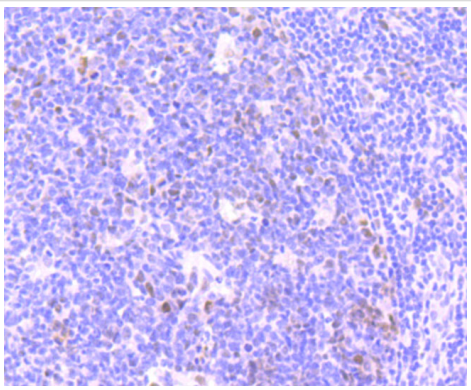
Description

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, IP
Species Reactivity	Hu, Ms
Immunogen Description	Synthetic phospho-peptide corresponding to residues surrounding Ser1981 of human ATM.
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
Uniprot	Q13315
GeneID	472;
Calculated MW	351 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

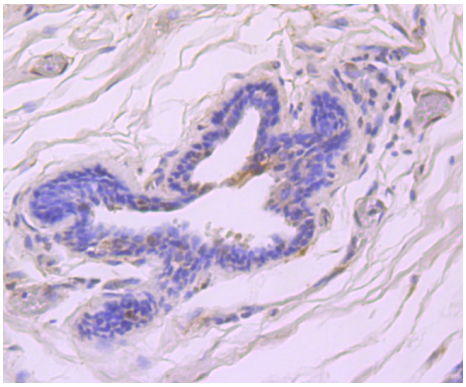
Application Details

WB: 1:500-1:1,000IHC: 1:50-1:100ICC: 1:50-1:200

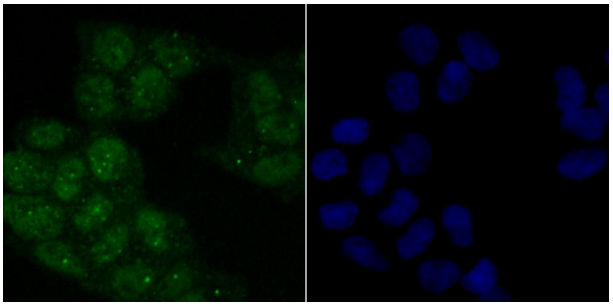
Images



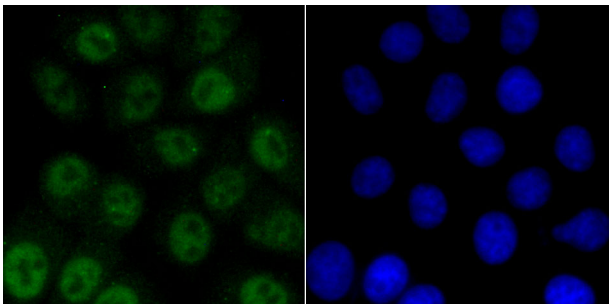
Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-ATM (phospho S1981) antibody. Counter stained with hematoxylin.



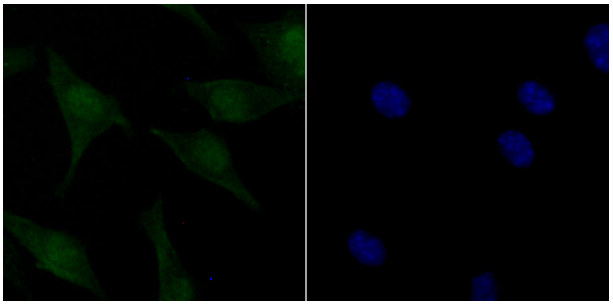
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue using anti-ATM (phospho S1981) antibody. Counter stained with hematoxylin.



ICC staining ATM (phospho S1981) in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining ATM (phospho S1981) in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining ATM (phospho S1981) in SH-SY5Y cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

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