ATM (phospho S1981) polyclonal antibody

Catalog: BS94001 Host: Rabbit Reactivity: Human, Mouse

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.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

351 kDa

Swiss-Prot:

Q13315(Human)

Purification&Purity:

ProA affinity purified

Applications:

WB:1:500-1:1,000

ICC:1:50-1:200

IHC:1:50-1:100

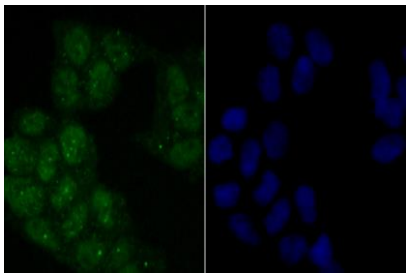
Storage&Stability:

Store at +4℃ after thawing. Aliquot store at -20℃ or -80℃. Avoid repeated freeze / thaw cycles.

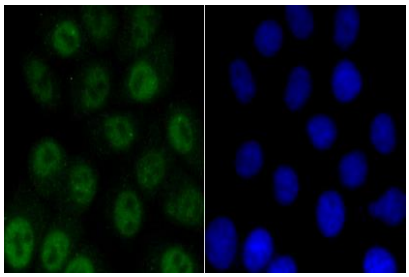
Specificity:

ATM (phospho S1981) polyclonal antibody detects endogenous levels of ATM protein only when phosphorylated at S1981.

DATA:



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.

Note:

For research use only, not for use in diagnostic procedure.

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