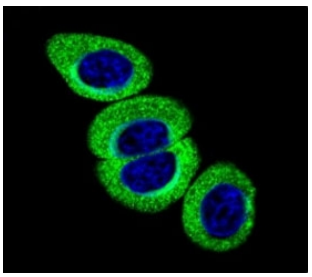
Phospho-ATM Antibody (pS1981) (F48551)

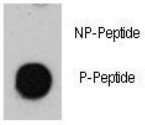
Catalog No.	Formulation	Size
F48551-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F48551-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	Q13315
Applications	Dot Blot : 1:500 Immunofluorescence : 1:10-1:50
Limitations	This phospho-ATM antibody is available for research use only.



Confocal immunofluorescent analysis of phospho-ATM antibody with HeLa cells followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used as a nuclear counterstain (blue).



Dot blot analysis of phospho-ATM antibody. 50ng of phos-peptide or nonphos-peptide per dot were spotted.

Description

ATM 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. ATM 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 the gene encoding ATM are associated with ataxia telangiectasia, an autosomal recessive disorder.

Application Notes

Titration of the phospho-ATM antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

This phospho-ATM antibody was produced from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding pS1981 of human ATM.

Storage

Aliquot the phospho-ATM antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.