Datasheet for ABIN3030033

anti-ATM antibody (pSer1981)

3 Images

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Overview

Quantity:	0.4 mL
Target:	ATM
Binding Specificity:	pSer1981
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATM antibody is un-conjugated
Application:	ELISA, Immunofluorescence (IF), Dot Blot (DB)

Product Details

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.
Isotype:	Ig Fraction
Purification:	Antigen affinity purified

Target Details

Target:	ATM
Alternative Name:	ATM (ATM Products)
Background:	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

Target Details

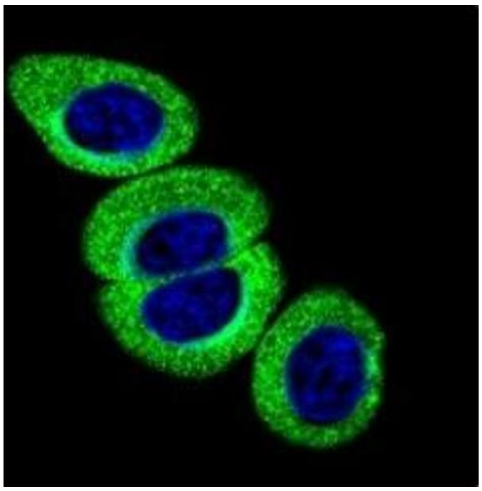
	proteins, including tumor suppressor proteins p53 and BRCA1, checkpoint kinase CHK2,checkpoint proteins RAD17 and RAD9, and DNA repair protein NBS1. ATM and the closely related kinase ATR are thought to be master controllers of cell cycle checkpoint signaling pathways that are required for cell response to DNA damage and for genome stability. Mutations in the gene encoding ATM are associated with ataxia telangiectasia, an autosomal recessive disorder.
UniProt:	Q13315
Pathways:	p53 Signaling, Apoptosis, DNA Damage Repair, Inositol Metabolic Process, Positive Regulation of Response to DNA Damage Stimulus

Application Details

Application Notes:	Titration of the phospho-ATM antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Dot blot: 1:500,Immunofluorescence: 1:10-1:50
Restrictions:	For Research Use only

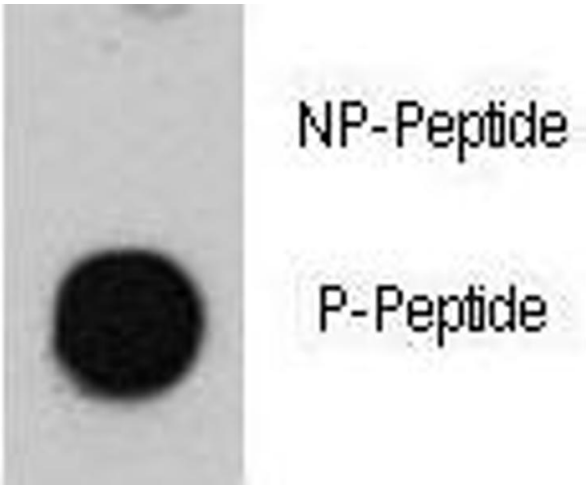
Handling

Format:	Liquid
Buffer:	In 1X PBS, pH 7.4, with 0.09 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Aliquot the phospho-ATM antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.



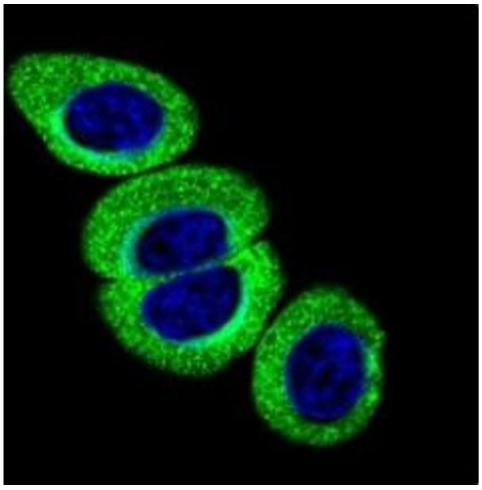
Immunofluorescence

Image 1. 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

Image 2. Dot blot analysis of phospho-ATM antibody. 50ng of phos-peptide or nonphos-peptide per dot were spotted.



Immunofluorescence

Image 3. 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).