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Datasheet for ABIN7127351 Recombinant anti-ATM antibody

3 Images



Overview

Quantity:	100 µL
Target:	ATM
Reactivity:	Human
Host:	Rabbit
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This ATM antibody is un-conjugated
Application:	Immunohistochemistry (IHC), ELISA, Flow Cytometry (FACS)

Product Details

Immunogen:	A synthesized peptide derived from human ATM
Clone:	3G11
Isotype:	lgG
Cross-Reactivity:	Human
Purification:	Affinity-chromatography

Target Details

Target:	ATM
Alternative Name:	ATM (ATM Products)
Background: Background: Serine/threonine protein kinase which activates checkpoint signaling upon dou	

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	strand breaks (DSBs), apoptosis and genotoxic stresses such as ionizing ultraviolet A light
	(UVA), thereby 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), thereby regulating 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, preventing accessibility to the RAG complex and
	recombination of the second allele. Also involved in signal transduction and cell cycle control.
	May function as a tumor suppressor. Necessary for activation of ABL1 and SAPK.
	Phosphorylates DYRK2, CHEK2, p53/TP53, FANCD2, NFKBIA, BRCA1, CTIP, nibrin (NBN),
	TERF1, RAD9 and DCLRE1C. 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. Phosphorylation of DYRK2 in nucleus
	in response to genotoxic stress prevents its MDM2-mediated ubiquitination and subsequent
	proteasome degradation. Phosphorylates ATF2 which stimulates its function in DNA damage
	response.
	Aliases: Serine-protein kinase ATM (EC 2.7.11.1) (Ataxia telangiectasia mutated) (A-T mutated),
	ATM
UniProt:	Q13315
Pathways:	p53 Signaling, Apoptosis, DNA Damage Repair, Inositol Metabolic Process, Positive Regulation of Response to DNA Damage Stimulus

Application Details

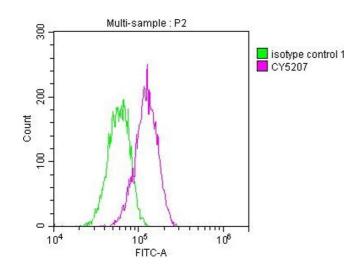
Application Notes:	Recommended dilution: IHC:1:50-1:200, FC:1:20-1:200,
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	Rabbit IgG in phosphate buffered saline, pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 %
burrer.	glycerol.
Preservative:	

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Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images

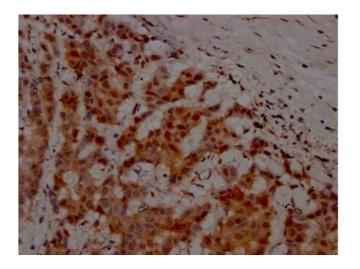


Flow Cytometry

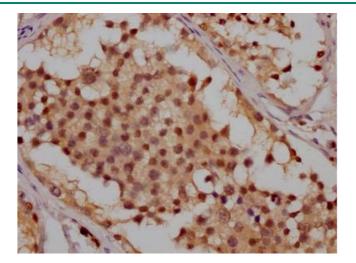
Image 1. Overlay histogram showing Hela cells stained with ABIN7127351 (red line) at 1:50. The cells were fixed with 70 % Ethylalcohol (18h) and then incubated in 10 % normal goat serum to block non-specific protein-protein interactions followedby the antibody (1 μ g/1*106cells) for 1 h at 4 °C.The secondary antibody used was FITC-conjugated goat anti-rabbit IgG (H+L) at 1/200 dilution for 30 min at 4 °C. Control antibody (green line) was Rabbit IgG (1 μ g/1*106cells) used under the same conditions. Acquisition of >10,000 events was performed.

Immunohistochemistry

Image 2. IHC image of ABIN7127351 diluted at 1:100 and staining in paraffin-embedded human breast cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10 % normal goat serum 30 min at RT. Then primary antibody (1 % BSA) was incubated at 4 °C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05 % DAB.



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Immunohistochemistry

Image 3. IHC image of ABIN7127351 diluted at 1:100 and staining in paraffin-embedded human testis tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10 % normal goat serum 30 min at RT. Then primary antibody (1 % BSA) was incubated at 4 °C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05 % DAB.