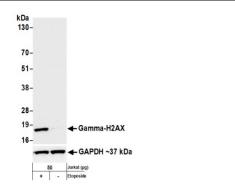
# gamma-H2AX Antibody

					() m	
Rabbit Polyclonal						
Antigen Affinit	y Purifie	d	Protein ID	P16104		
Catalog No.	alog No. A300-081A		GenelD	3014	RETHVI	
Lot No.	A300-0	081A-22			LABORATORIES, INC	
APPLICATIONS		WB, IHC, ICC-IF				
SPECIES REACTIVITY		Human, Mouse				
AMOUNT		100 µl				
CONCENTRATION		1000 μg/ml				
STORAGE/SHELF LIFE		2 - 8° C / 1 year from date of receipt				
PHYSICAL STATE		Liquid				
BUFFER		Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09% Sodium Azide				
ISOTYPE		IgG				
ORIGIN		USA				
PRODUCTION PROCEDURES		Antibody was affinity purified using an epitope specific to gamma-H2AX immobilized on solid support. Immunoglobulin concentration was determined by extinction coefficient: absorbance at 280 nm of 1.4 equals 1.0 mg of IgG. The epitope recognized by A300-081A maps to a region surrounding phosphorylated serine				
APPLICATIONS		140 of human histone H2AX using the numbering given in entry NP_002096.1 (GeneID 3014). Centrifuge tube to remove product from lid. Optimal working dilutions should be determined experimentally by the investigator. Prepare working dilution immediately before use.				
					ly before use.	
		Western Blot	1:	10,000 - 1:25,000		
		Immunohistoch	,	2,000 to 1:10,000. Epitope retrieval with cit commended for FFPE tissue sections.	rate buffer pH6.0 is:	
		Immunofluores (ICC)	Pe	500 – 1:5,000. Formaldehyde fixation is rec rmeabilization with Triton-X 100 is recomn rmaldehyde-fixed cells.		
IHC HUMAN CONTROLS Breast Carci Seminoma,			inoma, Ovarian Carcinoma, Prostate Carcinoma, Stomach Adenocarcinoma, Testicular HeLa Cells			
IHC MOUSE CON	Colon Carcinom	n Carcinoma CT26, Hybridoma Tumor, Renal Cell Carcinoma				
ADDITIONAL INFO		https://www.bethyl.com/product/A300-081A Use the link above to view SDS, a current list of citations, and other product specific information.				

This document certifies that this product has met all of the quality control standards defined by Bethyl Laboratories, Inc. Brian McWilliams, PhD Date: December 29, 2020

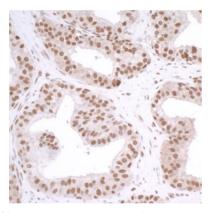
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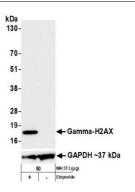
# Detection of human gamma-H2AX by western blot.

*Samples:* Whole cell lysate (50 μg) from Jurkat cells treated with 100 μM etoposide (+) or mock treated (-). *Antibody:* Affinity purified rabbit anti-gamma-H2AX antibody (A300-081A lot 22) used for WB at 0.04 μg/ml. *Detection:* Chemiluminescence with an exposure time of 10 seconds. Lower Panel shows western blot for GAPDH using rabbit anti-GAPDH recombinant monoclonal antibody (A700-103). *Secondary:* HRP-conjugated goat anti-rabbit IgG (A120-101P).



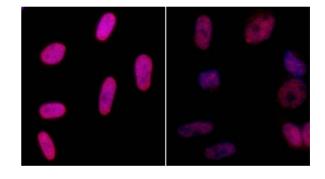
### Detection of human gamma-H2AX by

**immunohistochemistry.** *Sample:* FFPE section of human prostate carcinoma. *Antibody:* Affinity purified rabbit anti-gamma-H2AX (A300-081A lot 21) used at a dilution of 1:5,000 (0.2 µg/ml). *Detection:* DAB.



#### Detection of mouse gamma-H2AX by western blot.

Samples: Whole cell lysate (50 µg) from NIH 3T3 cells treated with 100 µM etoposide (+) or mock treated (-). Antibody: Affinity purified rabbit anti-gamma-H2AX antibody (A300-081A lot 22) used for WB at 0.04 µg/ml. Detection: Chemiluminescence with an exposure time of 10 seconds. Lower Panel shows western blot for GAPDH using rabbit anti-GAPDH recombinant monoclonal antibody (A700-103). Secondary: HRP-conjugated goat anti-rabbit IgG (A120-101P).



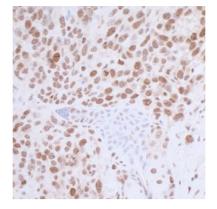
## Detection of human gamma-H2AX by

**immunocytochemistry.** *Samples:* Neocarzinostatin treated asynchronous HeLa cells (left) and untreated asynchronous HeLa cells (right). *Antibody:* Affinity purified rabbit antigamma-H2AX (A300-081A lot 12) used at a dilution of 1:5,000 (0.2µg/ml). *Detection:* Red fluorescent Anti-rabbit IgG-DyLight<sup>®</sup> 594 conjugated used at a dilution of 1:100.



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## Detection of mouse gamma-H2AX by

**immunohistochemistry.** *Sample:* FFPE section of mouse CT26 colon carcinoma. *Antibody:* Affinity purified rabbit anti-gamma-H2AX (A300-081A lot 21) used at a dilution of 1:5,000 (0.2 µg/ml). *Detection:* DAB.

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