# gamma-H2AX Recombinant Monoclonal Antibody [BLR053F]

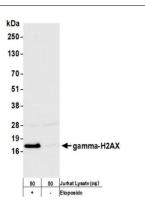


[BLR053F]						
Rabbit Recombinant Monoclonal						
Purified			Protein II	DN	IP_002096.1	
Catalog No.	A700-0	053	GenelD	3	3014	
Lot No.	A700-0	53-2				
APPLICATIONS		WB, IP, IHC, ICC, IHC–IF, F				
SPECIES REACTIVITY		Human, Mouse				
AMOUNT		100 µl (50+ tests)				
CONCENTRATION		100 μg/ml				
STORAGE/SHELF LIFE		2 - 8°C / 1 year from date of receipt				
PHYSICAL STATE		Liquid				
BUFFER		Borate Buffered Saline (BBS) pH 8.2 with 0.1% BSA and 0.09% Sodium Azide				
ISOTYPE		IgG				
CLONE #		BLR053F				
ORIGIN		USA				
PRODUCTION PROCEDURES		Recombinant antibody was purified from cell culture supernatant.				
		Immunogen was a peptide surrounding phosphorylated serine 140 of human histone H2AX using the numbering given in entry NP_002096.1 (Gene ID 3014).				
APPLICATIONS		Centrifuge tube to remove product from lid. Optimal working dilutions should be determined experimentally by the investigator. Prepare working dilution immediately before use.				
		Western Blot		1:100	0	
		Immunoprecipi	itation	20 µl/	1mg lysate	
		Immunohistoch			to 1:500. Epitope retrieval with citrate buffer pH6.0 is mended for FFPE tissue sections.	
		Immunocytoch	,		to 1:500. Epitope retrieval with citrate buffer pH6.0 is mended for FFPE cell sections.	
		Immunofluores (IHC)			to 1:500. Epitope retrieval with citrate buffer pH6.0 is mended for FFPE cell sections.	
		Flow Cytometry			in 4% formaldehyde and permeabilized with 90% methanol. 1 ul x 10^6 cells.	
78		786-O Cells, He	Basal Cell Carcinoma, Breast Carcinoma, Liver Carcinoma, Lung Carcinoma, Ovarian Carcinoma, 786-O Cells, HeLa Cells, NCI-H460 Cells, OVCAR-4 Cells			
IHC MOUSE CONTROLS Col		Colon Carcinom	Colon Carcinoma CT26			
ADDITIONAL INFO		https://www.bethyl.com/product/A700-053 Use the link above to view SDS, a current list of citations, and other product specific information.				

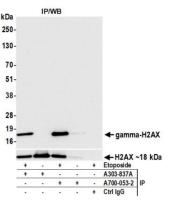
This document certifies that this product has met all of the quality control standards defined by Bethyl Laboratories, Inc. Michael Spencer, PhD Date: April 25, 2022

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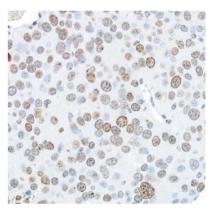
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**Detection of human gamma–H2AX by western blot.** *Samples:* Whole cell lysate (50 µg) from Jurkat cells treated with 100 µM etoposide (+) or mock treated (-). *Antibody:* Rabbit anti-gamma–H2AX recombinant monoclonal antibody [BLR053F] (A700–053 lot 2) used at 1:1000. *Secondary:* HRP–conjugated goat anti–rabbit IgG (A120–101P). Chemiluminescence with an exposure time of 3 seconds.



Detection of human Gamma–H2AX by western blot of immunoprecipitates. Samples: Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from Jurkat cells treated with 100  $\mu$ M etoposide or mock treated (–). Antibodies: Rabbit anti–Gamma–H2AX recombinant monoclonal antibody [BLR053F] (A700–053 lot 2) used for IP at 20  $\mu$ l/mg lysate. H2AX was also immunoprecipitated by goat anti–H2AX antibody (A303–837A). For blotting immunoprecipitated Gamma–H2AX, A700–053 was used at 1:1000. Chemiluminescence with an exposure time of 3 seconds. Lower Panel: goat anti–H2AX antibody (A303–837A).



## Detection of human gamma-H2AX by

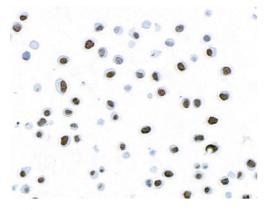
immunohistochemistry. *Sample:* FFPE section of human basal cell carcinoma. *Antibody:* Rabbit anti-gamma-H2AX recombinant monoclonal antibody [BLR053F] (A700-053 lot 2) used at 1:250. *Secondary:* HRP-conjugated goat anti-rabbit IgG (A120-501P). *Substrate:*DAB.

## Detection of mouse gamma-H2AX by

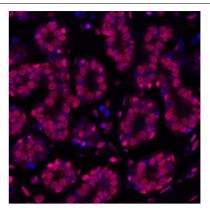
**immunohistochemistry.** *Sample:* FFPE section of mouse CT26 tumor. *Antibody:* Rabbit anti-gamma-H2AX recombinant monoclonal antibody [BLR053F] (A700-053 lot 2) used at 1:250. *Secondary:* HRP-conjugated goat anti-rabbit IgG (A120-501P). *Substrate:*DAB.

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A700-053

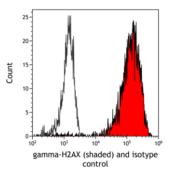


Detection of human gamma-H2AX by immunocytochemistry. *Sample:* FFPE section of human HeLa cells treated with etoposide. *Antibody:* Rabbit antigamma-H2AX recombinant monoclonal antibody [BLR053F] (A700-053 lot 2) used at 1:250. *Secondary:* HRPconjugated goat anti-rabbit IgG (A120-501P). *Substrate:*DAB.



#### Detection of human gamma-H2AX by

**immunohistochemistry.** *Sample:* FFPE section of human breast carcinoma. *Antibody:* Rabbit anti-gamma-H2AX recombinant monoclonal antibody [BLR053F] (A700-053 lot 1) used at 1:100. *Secondary:* DyLight® 594-conjugated goat anti-rabbit IgG (A120-101D4). *Counterstain:* DAPI.



**Detection of human gamma H2AX (shaded) in etoposide treated HEK293T cells by flow cytometry.** *Antibody:* Rabbit anti-gamma H2AX recombinant monoclonal [BLR053F] (A700-053) or isotype control (unshaded). *Secondary:* DyLight® 488-conjugated goat anti-rabbit IgG (A120-101D2).

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