

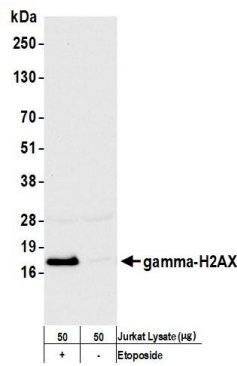
gamma-H2AX Recombinant Monoclonal Antibody [BLR053F]

Rabbit Recombinant Monoclonal

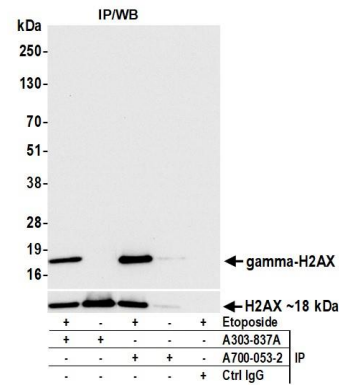
Purified Protein ID NP_002096.1
Catalog No. A700-053 GeneID 3014
Lot No. A700-053-2

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 1:1000 Immunoprecipitation 20 µl/1 mg lysate Immunohistochemistry 1:100 to 1:500. Epitope retrieval with citrate buffer pH6.0 is recommended for FFPE tissue sections. Immunocytochemistry 1:100 to 1:500. Epitope retrieval with citrate buffer pH6.0 is recommended for FFPE cell sections. Immunofluorescence (IHC) 1:100 to 1:500. Epitope retrieval with citrate buffer pH6.0 is recommended for FFPE cell sections. Flow Cytometry Fixed in 4% formaldehyde and permeabilized with 90% methanol. 1 µl per 1 x 10 ⁶ cells.
IHC HUMAN CONTROLS	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	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.

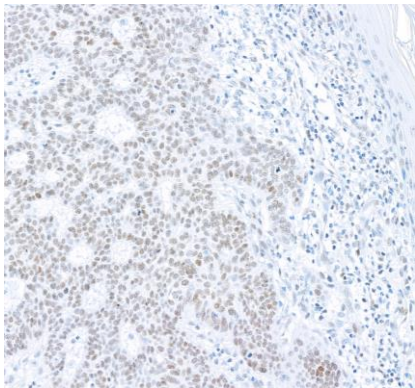
This document certifies that this product has met all of the quality control standards defined by Bethyl Laboratories, Inc.
Michael Spencer, PhD Date: April 25, 2022



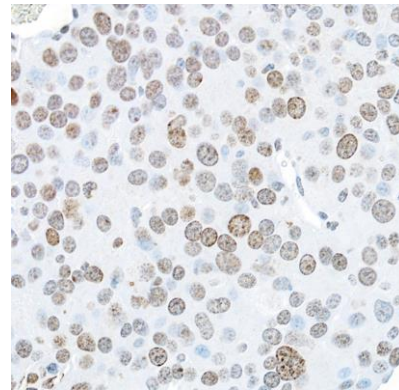
Detection of human gamma-H2AX by western blot.
Samples: Whole cell lysate (50 µg) from Jurkat cells treated with 100 µM etoposide (+) or mock treated (-). *Antibody:* Rabbit anti-gamma-H2AX recombinant monoclonal antibody [BLR053F] (A700-053 lot 2) used at 1:1000. *Secondary:* HRP-conjugated goat anti-rabbit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



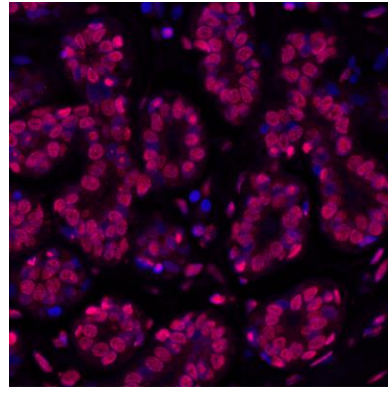
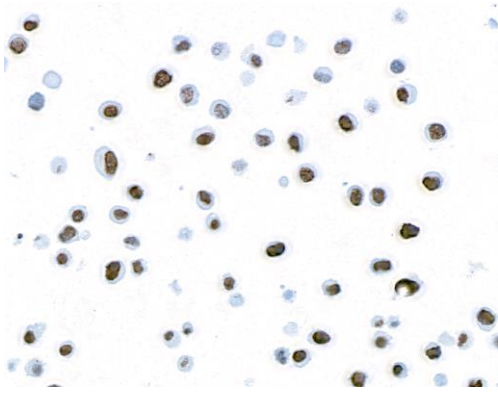
Detection of human Gamma-H2AX by western blot of immunoprecipitates. *Samples:* Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from Jurkat cells treated with 100 µM etoposide or mock treated (-). *Antibodies:* Rabbit anti-Gamma-H2AX recombinant monoclonal antibody [BLR053F] (A700-053 lot 2) used for IP at 20 µl/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.

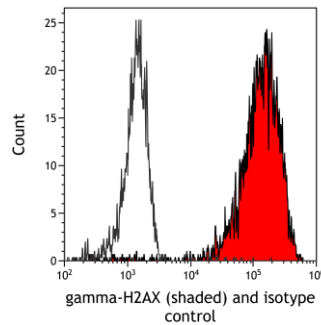


Detection of mouse gamma-H2AX by immunohistochemistry. *Sample:* FFPE section of mouse CT26 tumor. *Antibody:* Rabbit anti-gamma-H2AX recombinant monoclonal antibody [BLR053F] (A700-053 lot 2) used at 1:250. *Secondary:* HRP-conjugated goat anti-rabbit IgG (A120-501P). *Substrate:*DAB.



Detection of human gamma-H2AX by immunocytochemistry. *Sample:* FFPE section of human HeLa cells treated with etoposide. *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 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).