gamma-H2AX Antibody

Rabbit Polyclonal

Antigen Affinity Purified

Catalog No. A300-081A

Lot No. A300-081A-22

Protein ID P16104

GeneID 3014

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 140 of human histone H2AX using the numbering given in entry NP_002096.1 (GeneID 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.

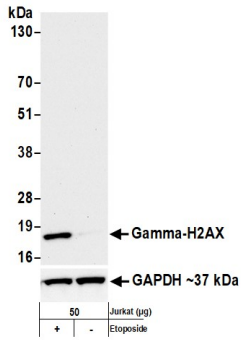
Western Blot	1:10,000 - 1:25,000
Immunohistochemistry	1:2,000 to 1:10,000. Epitope retrieval with citrate buffer pH6.0 is recommended for FFPE tissue sections.
Immunofluorescence (ICC)	1:500 - 1:5,000. Formaldehyde fixation is recommended. Permeabilization with Triton-X 100 is recommended for formaldehyde-fixed cells.

IHC HUMAN CONTROLS	Breast Carcinoma, Ovarian Carcinoma, Prostate Carcinoma, Stomach Adenocarcinoma, Testicular Seminoma, HeLa Cells
IHC MOUSE CONTROLS	Colon 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.

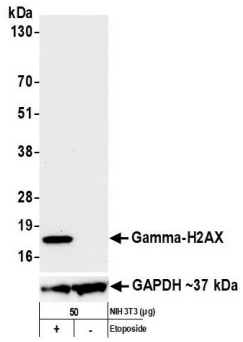
This document certifies that this product has met all of the quality control standards defined by Bethyl Laboratories, Inc.

Brian McWilliams, PhD

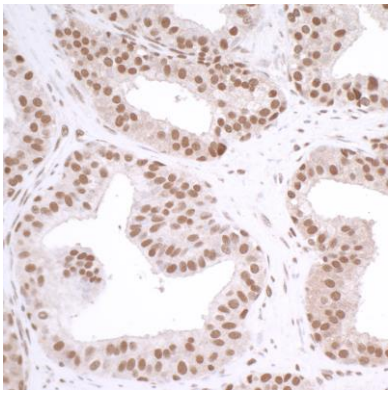
Date: December 29, 2020



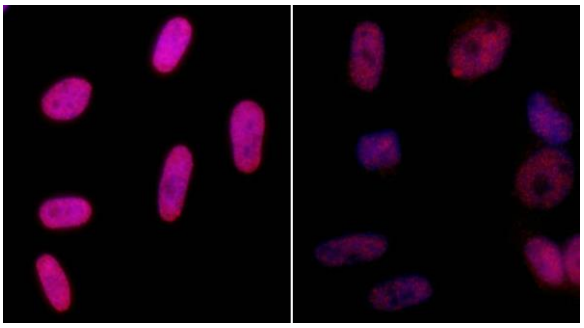
Detection of human gamma-H2AX by western blot. *Samples:* Whole cell lysate (50 µg) from Jurkat cells treated with 100 µM etoposide (+) or mock treated (-). *Antibody:* Affinity purified rabbit anti-gamma-H2AX antibody (A300-081A lot 22) used for WB at 0.04 µg/ml. *Detection:* Chemiluminescence with 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).



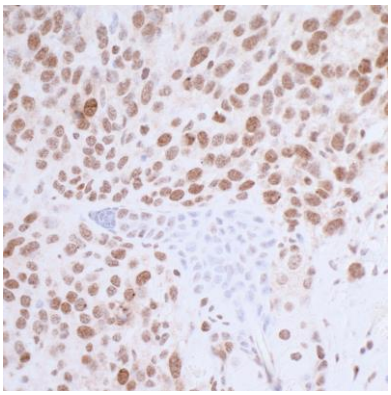
Detection of mouse gamma-H2AX by western blot. *Samples:* Whole cell lysate (50 µg) from NIH 3T3 cells treated with 100 µM etoposide (+) or mock treated (-). *Antibody:* Affinity purified rabbit anti-gamma-H2AX antibody (A300-081A lot 22) used for WB at 0.04 µg/ml. *Detection:* Chemiluminescence with 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 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 human gamma-H2AX by immunocytochemistry. *Samples:* Neocarzinostatin treated asynchronous HeLa cells (left) and untreated asynchronous HeLa cells (right). *Antibody:* Affinity purified rabbit anti-gamma-H2AX (A300-081A lot 12) used at a dilution of 1:5,000 (0.2µg/ml). *Detection:* Red fluorescent Anti-rabbit IgG-DyLight® 594 conjugated used at a dilution of 1:100.



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.