

Phospho Histone H2AX (Ser139) Antibody

rev 12/19

CATALOG NO.: A1957-100 (100 µl)

BACKGROUND DESCRIPTION: Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and functions in the compaction of chromatin into higher order structures. This gene encodes a replication-independent histone that is a member of the histone H2A family, and generates two transcripts through the use of the conserved stem-loop termination motif, and the poly A addition motif.

ALTERNATE NAMES: H2AX; Histone H2AX; H2a/x; Histone H2A.X

ANTIBODY TYPE: Polyclonal

HOST/ISOTYPE: Rabbit / IgG

IMMUNOGEN: KLH-conjugated synthetic peptide targeting a sequence within the C-term region of human Histone H2AX

MOLECULAR WEIGHT: 15 kDa

PURIFICATION: Affinity purified

FORM: Liquid

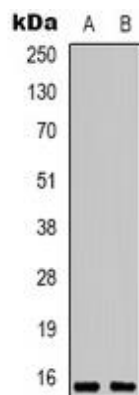
FORMULATION: In 0.42% Potassium phosphate; 0.87% NaCl; pH 7.3; 30% glycerol; and 0.01% sodium azide

SPECIES REACTIVITY: Human, Mouse, Rabbit

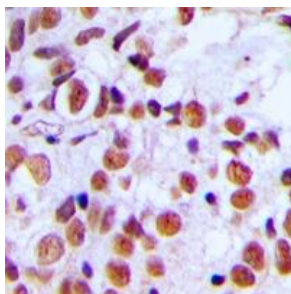
STORAGE CONDITIONS: Store at -20°C. Avoid freeze / thaw cycles

APPLICATIONS AND USAGE: WB 1:500 - 1:1000, IHC 1:100 - 1:200, IP 1:10 - 1:100, FC 1:100 - 1:200

Note: This information is only intended as a guide. The optimal dilutions must be determined by the user



Western blot analysis of phospho Histone H2AX (Ser139) expression in HEK293T (A); NIH3T3 (B) whole cell lysates.



Immunohistochemical analysis of phospho Histone H2AX (Ser139) staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) and then incubated with the antibody at RT and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with hematoxylin and mounted with DPX.

RELATED PRODUCTS:

HDAC6 Antibody (3606)
Anti-Histone H2B Rabbit Monoclonal Antibody (A1144)
Anti-Histone H2AX Rabbit Monoclonal Antibody (A1143)
Histone H2A Antibody (3621)

FOR RESEARCH USE ONLY! Not to be used on humans.