

Histone H2A.X (phospho-S139) monoclonal antibody

Catalog: MB0175

Host: Mouse

Reactivity: Human, Mouse

BackGround:

H2A.X is a member of the histone H2A family, 1 of 5 families of histone proteins involved in nucleosomal organization of chromatin. H2A.X is synthesised in G1 as well as S phase and is known to be important for recombination between immunoglobulin switch regions. A very early step in the response of mammalian cells to DNA double-strand breaks is the phosphorylation of histone H2A.X at serine 139 at the sites of DNA damage. There is a predicted acetylation at residue 1 and ubiquitination at residue 119. Phosphorylated H2A.X promotes DNA repair and maintains genomic stability.

Product:

Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol

Molecular Weight:

Predicted band size: 15KDa

Observed band size: 15KDa

Swiss-Prot:

P16104

Purification&Purity:

The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:1000~2000

IF: 1:200~500

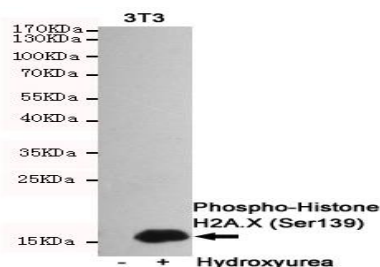
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

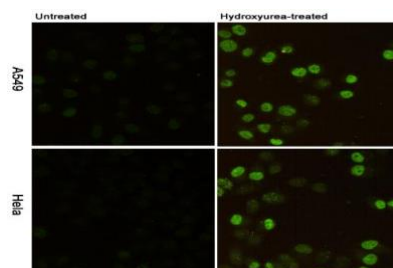
Specificity:

This antibody detects endogenous levels of Histone H2A.X protein only when phosphorylated at Ser139, and does not cross-react with related proteins.

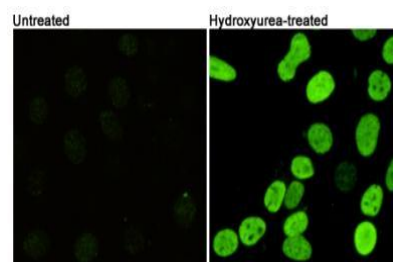
DATA:



Western blot detection of Phosphorylation of H2A.X at Serine 139 in 3T3 or Hydroxyurea-treated 3T3 cell lysates using Phospho-Histone H2A.X (Ser139) mouse mAb (1:2000 diluted).



Immunofluorescent analysis of Phosphorylation of H2A.X at Serine 139 in A549(upper, untreated or Hydroxyurea-treated) and HeLa(lower, untreated or Hydroxyurea-treated) using Phospho-Histone H2A.X (Ser139) mouse mAb (1:400).



Immunofluorescent analysis of Phosphorylation of H2A.X at Serine 139 in 3T3 or Hydroxyurea-treated 3T3 cells using Phospho-Histone H2A.X (Ser139) mouse mAb (1:400).

Note:

For research use only, not for use in diagnostic procedure.

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