Data Sheet (Cat.No.TMAY-01424)

Anti-Phospho-Histone H2A.X (Ser139) Antibody (6R272)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human; Predicted to React with:>Phospho-Histone H2A.X (Ser139). Also named as gamma H2AX, γ H2AX.Phospho-Histone H2A.X Ser140 of P16104 in UniProt historically has been referenced as Ser139.
Conjugation:	Unconjugated
Clone:	6R272
Purification:	Protein A

Applications

Verified Activity:	1. Immunohistochemical analysis of paraffin-embedded human gastric cancer tissue, untreated (left) or lambda phosphatase-treated (right), using Recombinant Phospho-Histone H2A-X (Ser139) Antibody, Rabbit Monoclonal at 1:200 dilution. 2. Western blot analysis of extracts from serum-starved NIH-3T3, untreated(line A) or treated with UV (30min; +)(line B), using Phospho-Histone H2A.X (Ser139) rabbit monoclonal Antibody at 1:5000 dilution (upper) or Anti-Actin Antibody, Chimeric Rabbit Monoclonal at 1:50000 dilution (lower). 3. Western blot analysis of extracts from serum-starved NIH-3T3, untreated (line A); treated with UV (30min; +) (line B); treated with UV and λ-phosphatase (line C) using Phospho-Histone H2A.X (Ser139) rabbit monoclonal Antibody at 1:5000 dilution. (Validation Experiment) 4. Western blot analysis of extracts from serum-starved NIH-3T3, untreated (line A); treated with UV (30min), without peptide (line B) or antigen-specific phosphopeptide (line C) or antigen-specific peptide (line D) using Phospho-Histone H2A.X (Ser139) rabbit monoclonal Antibody at 1:5000 dilution. (Validation Experiment)
Application:	IHC-P,WB
Recommended	WB: 1:2000-1:20000; IHC-P: 1:1000-1:5000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	A synthetic peptide: residues around Ser139 of Human Phospho-Histone H2A.X
Antigen Species:	Human
Synonyms:	p-Histone H2A.X (S139);Histone H2A.X (p-Ser139);Phospho-Histone H2A.X (S139);Histone H2A.X (p-S139);p-Histone H2A.X (Ser139)

Research Background

H2AFX variants are associated with an increased risk of breast cancer (BC). H2AFX gene encodes a member of the H2A histone family which is central in the detection of and response to DNA double-strand breaks. In somatic cells, H2afx and Mdc1 are close functional partners in DNA repair and damage response. Due to the critical role of the H2AX histone variant in double-strand break repair, genetic variants in the H2AX gene, H2AFX, may influence cancer susceptibility. H2AFX encodes a histone variant involved in signaling sites of DNA damage and recruiting repair factors. Genetic variants in H2AFX may influence the risk of non-Hodgkin lymphoma (NHL), a heterogeneous group of lymphoid tumors that are characterized by chromosomal translocations.

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