

Product datasheet for **TA384364M**

Histone H2A.X (H2AFX) Rabbit Monoclonal Antibody [Clone ID: R09-4A7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	R09-4A7
Applications:	IP, WB
Recommended Dilution:	WB: 1/2000 IP: 1/20
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	A synthetic phosphopeptide corresponding to residues surrounding Ser139 of human gamma H2A.X (Phosphorylated)
Formulation:	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Stability:	1 year
Predicted Protein Size:	Calculated MW: 15 kDa; Observed MW: 15 kDa
Gene Name:	H2A histone family member X
Database Link:	Entrez Gene 3014 Human P16104



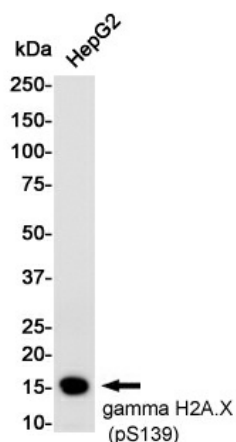
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Background:

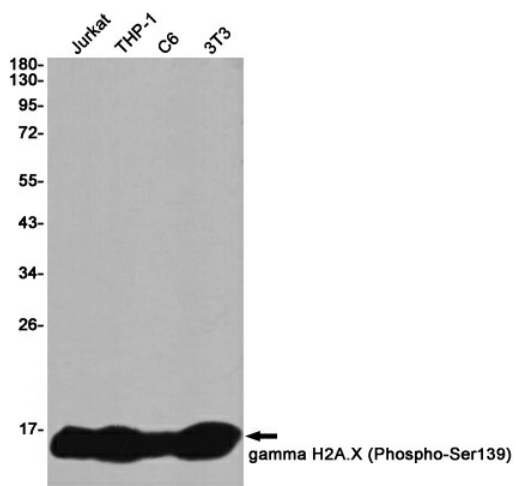
Swiss-Prot Acc.P16104.Variant histone H2A which replaces conventional H2A in a subset of nucleosomes. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling. Required for checkpoint-mediated arrest of cell cycle progression in response to low doses of ionizing radiation and for efficient repair of DNA double strand breaks (DSBs) specifically when modified by C-terminal phosphorylation.

Synonyms:

H2A.X; H2A/X; H2AX

Product images:


Western blot detection of gamma H2A.X (Phospho-Ser139) in HepG2 cell lysates using gamma H2A.X (Phospho-Ser139) Rabbit mAb(1:1000 diluted). Predicted band size:15KDa.Observed band size:15KDa.



Western blot detection of gamma H2A.X (Phospho-Ser139) in Jurkat,THP-1,C6,3T3 cell lysates using gamma H2A.X (Phospho-Ser139) Rabbit mAb(1:1000 diluted). Predicted band size:15KDa.Observed band size:15KDa.