

## Product datasheet for **TA384365M**

### Histone H2A.X (H2AFX) Rabbit Monoclonal Antibody [Clone ID: R02-5E6]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	R02-5E6
Applications:	IF, IHC, IP, WB
Recommended Dilution:	WB: 1/1000-1/5000 IHC: 1/200 ICC/IF: 1/200 IP: 1/20
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	A synthetic peptide of human Histone H2A.X
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:	<a href="#">Entrez Gene 3014 Human P16104</a>

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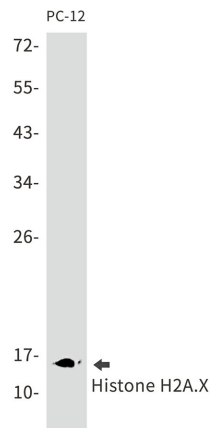
## Background:

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.

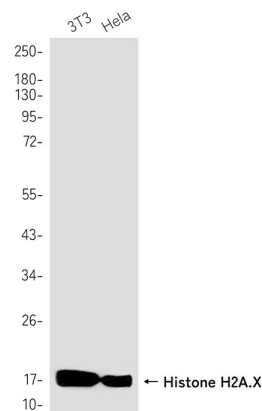
## Synonyms:

H2A.X; H2A/X; H2AX

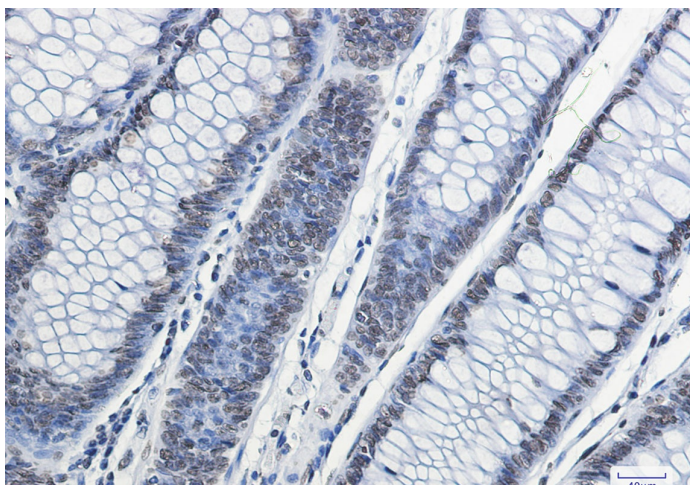
## Product images:



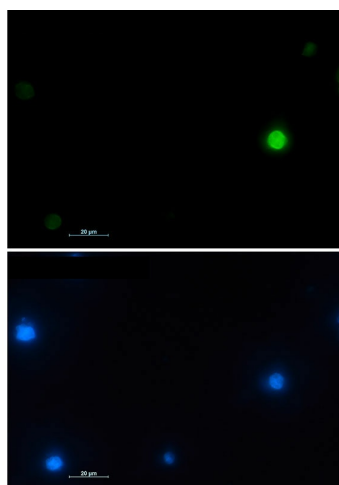
Western blot analysis of Histone H2A.X in PC-12 lysates using Histone H2A.X antibody.



Western blot analysis of Histone H2A.X in 3T3, HeLa lysates using Histone H2A.X antibody



Immunohistochemistry analysis of paraffin-embedded Human colon cancer using Histone H2A.X antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



Immunocytochemistry analysis of Histone H2A.X (green) in HL-60 using Histone H2A.X antibody, and DAPI (blue).