

Histone H2A.x Polyclonal Antibody

Catalog No: #42593

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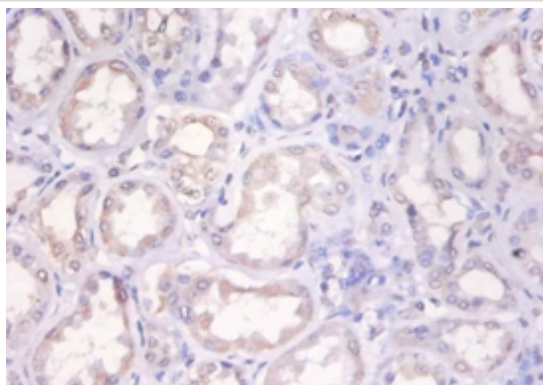
Description

Product Name	Histone H2A.x Polyclonal Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Caprylic Acid Ammonium Sulfate Precipitation purified
Applications	IHC
Species Reactivity	Hu
Specificity	The antibody detects endogenous level of total Histone H2A.x polyclonal antibody.
Immunogen Type	protein
Immunogen Description	Recombinant human Histone H2A.x protein
Target Name	Histone H2A.x
Other Names	H2AFX, H2AX
Accession No.	Swiss-Prot#: P16104
Uniprot	P16104
GeneID	3014;
Formulation	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Storage	Store at -20°C

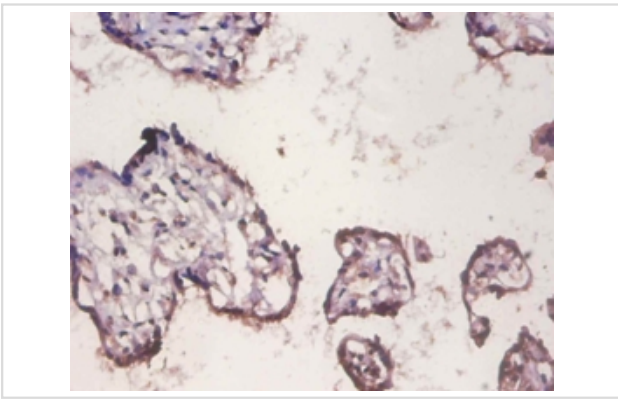
Application Details

Immunohistochemistry: 1:20 - 1:200

Images



Immunohistochemical analysis of paraffin-embedded human kidney using #42593 at dilution of 1:100.



Immunohistochemical analysis of paraffin-embedded human placenta using #42593 at dilution of 1:100.

Background

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.

References

[1] "H2A.X, a histone isoprotein with a conserved C-terminal sequence, is encoded by a novel mRNA with both DNA replication type and polyA 3' processing signals." Mannironi C., Bonner W.M., Hatch C.L. *Nucleic Acids Res.* 17:9113-9126(1989) [2] "Cloning of

Note: This product is for in vitro research use only