



Histone H2A Polyclonal Antibody

Catalog No	YP-Ab-02249
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	HIST1H2AG/HIST1H2AI/HIST1H2AK/HIST1H2AL/HIST1H2AM
Immunogen	Synthesized peptide derived from the Internal region of human Histone H2A. 20-50
Specificity	Histone H2A Polyclonal Antibody detects endogenous levels of Histone H2A protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC-p: 1/100-1/300. ELISA: 1/20000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	H2A.X;H2A/X;H2AFX;Histone H2AX;Histone H2A;HIST1H2AG/HIST1H2AI/HIST1H2AK/HIST1H2AL/HIST1H2AM;Histone H2A type 1;HIST1H2AG;H2AFP;HIST1H2AI;H2AFC;HIST1H2AK;H2AFD;HIST1H2AL;H2AFI;HIST1H2AM;H2AFN;H2A.1;Histone H2A/p
Observed Band	15kD
Calculated Molecular Weight	15kD
Cell Pathway	Nucleus. Chromosome.
Tissue Specificity	Bone,Brain,Colon,Eye,Lymph,PCR rescued clones,Placenta,Sple
Function	function:Core component of nucleosome. 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.,mass spectrometry:Monoisotopic with N-acetylserine PubMed:16457589, PTM:Deiminated on Arg-4 in granulocytes upon calcium entry.,



PTM: Monoubiquitination of Lys-120 by RING1 and RNF2/RING2 complex gives a specific tag for epigenetic transcriptional repression and participates in X chromosome inactivation of female mammals. It is involved in the initiation of both imprinted and random X inactivation. Ubiquitinated H2A is enriched in inactive X chromosome

Background

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and functions in the compaction of chromatin into higher order structures. This gene is intronless and encodes a replication-dependent histone that is a member of the histone H2A family. Transcripts from this gene lack polyA tails but instead contain a palindromic termination element. This gene is found in the small histone gene cluster on chromosome 6p22-p21.3. [provided by RefSeq, Aug 2015],

matters needing attention

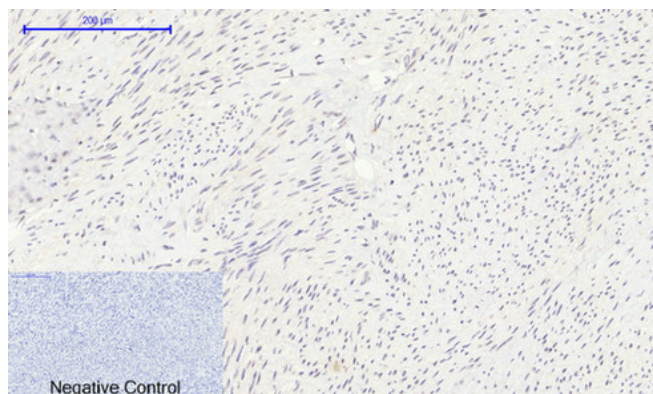
Avoid repeated freezing and thawing!

Usage suggestions

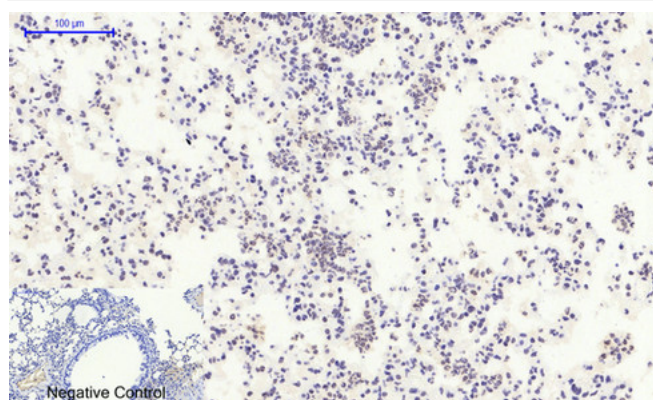
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



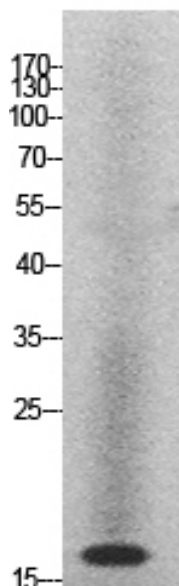
Products Images



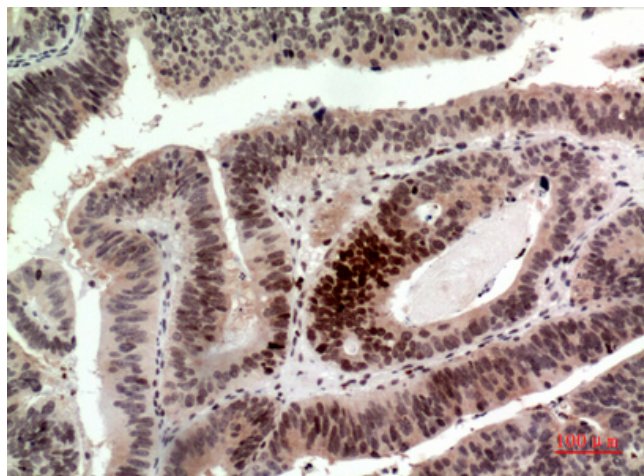
Immunohistochemical analysis of paraffin-embedded Human-uterus tissue. 1, Histone H2A Polyclonal Antibody was diluted at 1:200 (4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min). 3, Secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Mouse-lung tissue. 1, Histone H2A Polyclonal Antibody was diluted at 1:200 (4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min). 3, Secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control was used by secondary antibody only.



Western Blot analysis of HeLa cells using Histone H2A Polyclonal Antibody. Secondary antibody (catalog#: RS0002) was diluted at 1:20000. Cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Invent biotech, MN, USA).



Immunohistochemical analysis of paraffin-embedded human-colon-cancer, antibody was diluted at 1:100