



Acetyl-Histone H3 (K9) Monoclonal Antibody(2E7)

Catalog No	BYab-01172
Isotype	IgG
Reactivity	Human;Rat;Mouse
Applications	WB;IHC;IF
Gene Name	HIST1H3A
Protein Name	HIST1H3A
Immunogen	Synthetic Peptide of Acetyl-Histone H3 (K9)
Specificity	Acetyl-Histone H3 (K9) Monoclonal Antibody(2E7) detects endogenous levels of HIST1H3A
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
Dilution	IHC-p 1:50-300, WB 1:500-2000. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	HIST1H3A;H3k9AC
Observed Band	15kD
Cell Pathway	Nucleus. Chromosome.
Tissue Specificity	Blood, Epithelium, Kidney, Lung, Ovary, Spleen, Uterus,
Function	caution:Was originally (PubMed:2587222) thought to originate from mouse.,developmental stage:Expressed during S phase, then expression strongly decreases as cell division slows down during the process of differentiation.,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,miscellaneous:This histone is only present in mammals and is enriched in acetylation of Lys-15 and dimethylation of Lys-10

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(H3K9me2).,PTM:Acetylation is generally l

Background

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped around a nucleosome, an octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene is intronless and encodes a replication-dependent histone that is a member of the histone H3 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is found in the large histone gene cluster on chromosome 6p22-p21.3. [provided by RefSeq, Aug 2015],

matters needing attention

Avoid repeated freezing and thawing!

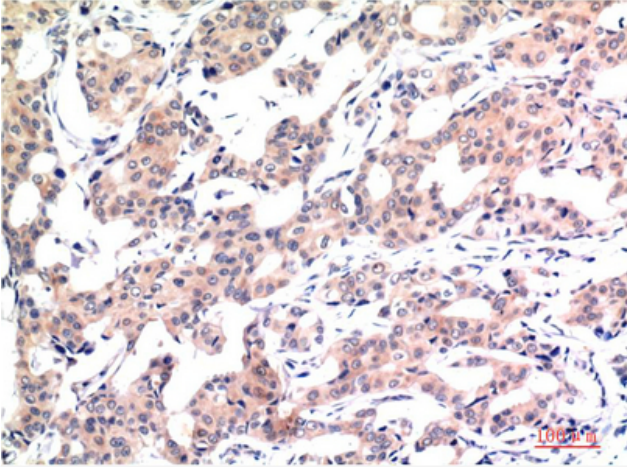
Usage suggestions

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

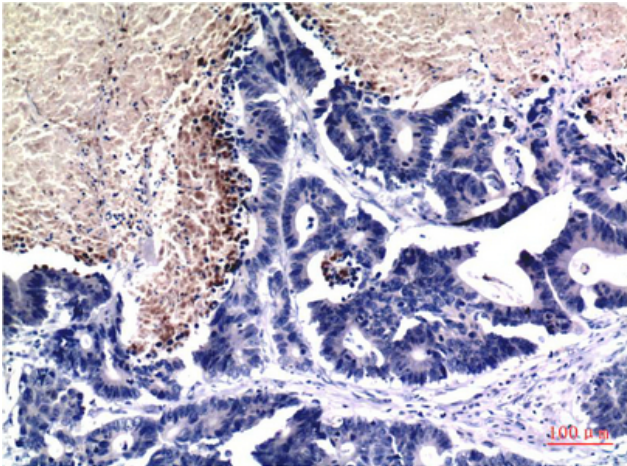
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Products Images



Immunohistochemical analysis of paraffin-embedded Human Breast Carcinoma Tissue using Acetyl Histone H3 K9 Mouse mAb diluted at 1:200.



Immunohistochemical analysis of paraffin-embedded Human Stomach Tissue using Acetyl Histone H3 K9 Mouse mAb diluted at 1:200.