Anti-acetyl-Histone H3

Polyclonal Antibody Cat. # 06-599 Lot # JBC1924319

pack size: 100 µg

Store at 2-8℃

FOR RESEARCH USE ONLY

Applications	Species Cross-Reactivity	Antibody Isotype	Epitope/ Region	Host Species	Molecular Weight	Accession #
WB, IC, ChIP	H, M, R	N/A	Acetylated	Rb	17 kDa	NP_003484.1

Background

Histone H3 is one of the five main histone proteins involved in the structure of chromatin in eukaryotic cells. Featuring a main globular domain and a long N-terminal tail, H3 is involved with the structure of the nucleosomes of the 'beads on a string' structure. The Nterminal tail of histone H3 protrudes from the globular nucleosome core and can undergo several different types of epigenetic modifications that influence cellular processes. These modifications include the covalent attachment of methyl or acetyl groups to lysine and arginine amino acids and the phosphorylation of serine or threonine. Acetylation of histone H3 occurs at several different lysine positions in the histone tail and is performed by a family of enzymes known as Histone Acetyl Transferases (HATs). Acetylation of lysine14 is commonly seen in genes that are being actively transcribed into RNA.

Presentation

Purified rabbit polyclonal in buffer containing 0.1 M Tris-Glycine (pH 7.4), 150 mM NaCl with 0.05% sodium azide

Concentration

1 mg/mL

Specificity

Recognizes Histone H3 acetylated at the Nterminus.

Species Cross-reactivity

Demonstrated to react with human, mouse, and rat. Broad species cross-reactivity expected based on sequence similarity.

Immunogen

Linear peptide corresponding to human Histone H3 acetylated at the N-terminus.

Molecular Weight ~ 17 kDa observed

Method of Purification

Protein A Purified

Storage and Handling

Stable for 1 year at 2-8℃ from date of receipt.

Control

HeLa acid extract, sodium butyrate treated HeLa cells, and recombinant Histone H3

Quality Control Testing

Evaluated by Western Blotting in HeLa acid extract, sodium butyrate treated HeLa cells, and recombinant Histone H3.

Western Blotting Analysis: 0.05 µg/mL of this antibody detected Histone H3 on 10 µg of HeLa acid extract, sodium butyrate treated HeLa cells, and recombinant Histone H3.



APPLICATION LEGEND: WB Western Blotting ChIP Chromatin Immunoprecipitation IC Immunocytochemistry IH Immunohistochemistry (Tissue) IH(P) Immunohistochemistry (Paraffin) FC Flow Cytometry SPECIES LEGEND: H Human M Mouse R Rat Rb Rabbit WR Most Common Vertebrates

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References

- 1. Kashiwaya K, et al. (2010). Cancer Res. 70:4024-4033
- 2. Dispirito JR, and Shen H. (2010). J. Immunol. 184:4631-4636.
- 3. Turnbaugh PJ, et al. (2010). Proc. Natl. Acad Sci. U S A. 107:7503-7508
- 4. Evans P.M., et al. (2009). Mol. Cell. Bio. 30:372-381
- 5. Zippo, A., et al. (2009). Cell. 138: 1122-1136 6. Dammer, EB., et al. (2007). Mol Endocrinol.
- 21: 415-38. 7. Liu, Chang, et al. (2007). Nature. 447: 477-81.

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陈相军

运营总监

Immunocytochemistry Analysis: 1:500 dilution of a representative lot of this antibody detected acetylated Histone H3 in NIH/3T3 and A431 cells.

Chromatin Immunoprecipitation: This antibody has been shown to work for chIP using HeLa extracted chromatin and 5 µg of this antibody.



Immunocytochemistry Analysis: Representative lot data Confocal fluorescent analysis of A431 and NIH/3T3 cells using Anti-acetyl-Histone H3 (Red). Actin filaments have been labeled with AlexaFluor®488 -Phalloidin (Green). Nucleus is stained with DAPI (Blue). This antibody positively stains the nucleus.

PROTOCOL

Western Blotting

- 1. Perform SDS-polyacrylamide gel electrophoresis (SDS-PAGE) on cell lysate and transfer the proteins to a PVDF membrane. Wash the PVDF membrane twice with water.
- 2. Block the blotted PVDF membrane in freshly prepared 5% BSA or milk with 0.05% Tween®-20 for 1 hour at room temperature with constant agitation.
- 3. Incubate the PVDF with the recommended dilution of the primary antibody, diluted in freshly prepared 5% BSA or milk for 1 hour at room temperature or overnight with agitation at 2-8°C.
- 4. Wash the PVDF 3 times with TBST.
- Incubate the PVDF in the secondary reagent of choice in 5% milk for 1 hour with agitation at room temperature. 5.
- 6. Wash the PVDF 3-5 times with TBST.
- 7. Use Spray and Glow Catalog # 17-373 to visualize results. Use as directed.

PELATED PPODLICTS (specific)

RELATED PRODUCTS (specific)		RELATED PRODUCTS (non-specific)		
cat #		description	cat #	description
AP182P		Donkey anti-Rabbit IgG, HRP conjugate	WBAVDBASE	SNAP i.d. Protein Detection System
07-353		Anti-acetyl-Histone H3 (Lys14)	WBAVDABTR	SNAP i.d. Antibody Collection Tray
04-1135		Anti-acetyl-Histone H3 (Lys56), clone EPR996Y, Rabbit Monoclonal	WBAVDR0LL	SNAP i.d. Blot Roller
07-352		Anti-acetyl-Histone H3 (Lys9)	WBAVDBH03	SNAP i.d. Triple Well Blot Holder
07-677		Anti-acetyl-Histone H3 (Lys56)	WBAVDBH01	SNAP i.d. Single Well Blot Holder
17-615		ChIPAb+ Acetyl-Histone H3	WBAVDBH02	SNAP i.d. Double Well Blot Holder
17-609		ChIPAb+ Acetyl-Histone H3 (Lys9) Serum	IPVH00010	Immobilon-P 26.5 cm x 3.75 m Roll PVDF 0.45 µm
17-658		ChIPAb+ Acetyl-Histone H3 (Lys9) Purified	IPFL00010	Immobilon-FL 26.5 cm x 3.75 m Roll PVDF 0.45 µm
17-683		ChIPAb+ Acetyl-Histone H3 (Lys27)	IPVH07850	Immobilon-P 7 x 8.4 cm PVDF 0.45 mm (sheet) 50/pk
17-10050		ChIPAb+ Acetyl-Histone H3 (Lys4)	ISEQ00010	Immobilon-P SQ 26.5 cm x 3.75 m 1 roll PVDF 0.2 μm
17-610		Magna ChIP™ A Chromatin Immunoprecipitation Kit	ISEQ07850	Immobilon-P 7 x 8.4 cm PVDF 0.2 mm (sheet) 50/pk
17-611		Magna ChIP™ G Chromatin Immunoprecipitation Kit	IPFL07810	Immobilon-FL 7 x 8.4 cm PVDF 0.45 mm (sheet) 10/pk
17-408		EZ-Magna ChIP™ A Chromatin Immunoprecipitation Kit	WBKLS0100	Immobilon Western Chemilum HRP Substrate 100 mL
17-409		EZ-Magna ChIP™ G Chromatin Immunoprecipitation Kit	17-373	Spray & Glow™ ECL WB Detection System 1 ea
			2060	Re-Blot Western Blot Recycling Kit
			2500	Re-Blot Plus Western Blot Recycling Kit
			B2080-175GM	Blot Quick Blocker Membrane Blocking Agent 175G

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