Product Datasheet

Histone H3 [p Ser28] Antibody (HTA28)
NB600-1168

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Publications: 10

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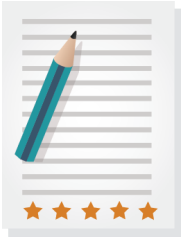
Updated 3/20/2025 v.20.1



NB600-1168

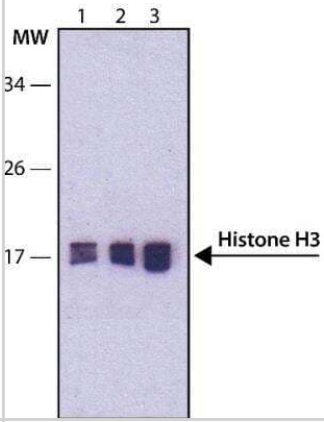
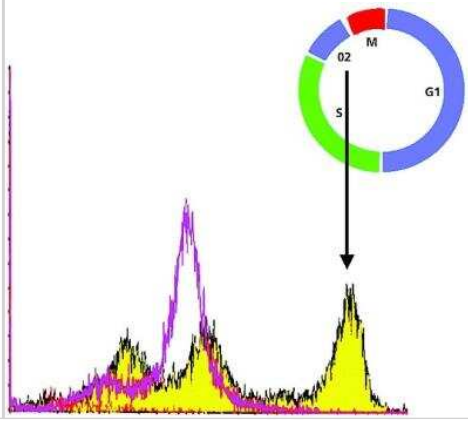
Histone H3 [p Ser28] Antibody (HTA28)

Product Information	
Unit Size	0.1 ml
Concentration	0.5 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	HTA28
Preservative	0.09% Sodium Azide
Isotype	IgG2a
Purity	Protein A or G purified
Buffer	10mM PBS (pH 7.4) and 1.0% BSA
Target Molecular Weight	15 kDa

Product Description	
Host	Rat
Gene ID	126961
Gene Symbol	H3C14
Species	Human, Mouse, Bovine, Hamster
Specificity/Sensitivity	Histone H3 [p Ser28] antibody (HTA28) does not detect the unphosphorylated epitope. It detects the phosphorylated histone molecule at the onset of mitosis (prophase, metaphase and weaker at the beginning of anaphase), but not during late anaphase.
Immunogen	This Histone H3 [p Ser28] antibody (HTA28) was raised against synthetic peptide conjugated to KLH, corresponding to amino acids 23-35 (pSer28) of Human Histone H3.

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Microarray
Recommended Dilutions	Western Blot 0.5-1.0 ug/ml, Flow Cytometry 1:10-1:1000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:10-1:2000, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen, Microarray
Application Notes	For ICC: use 3.7% formaldehyde-methanol fixation Use in Immunohistochemistry reported in scientific literature (PMID 25258086)

Images

Western Blot: Histone H3 [p Ser28] Antibody (HTA28) [NB600-1168] - Whole extract of HeLa cell treated with nocodazole was separated on SDS-PAGE and probed with Monoclonal Anti-phospho-Histone H3 (pSer28), Clone: HTA28. The antibody was developed using Goat Anti-Rat IgG-Peroxidase and a chemiluminescent substrate. Lanes: 1. Antibody dilution 0.5 ug/mL 2. Antibody dilution 1 ug/mL 3. Antibody dilution 2 ug/mL	
Immunocytochemistry/Immunofluorescence: Histone H3 [p Ser28] Antibody (HTA28) [NB600-1168] - HeLa cells were fixed and permeabilized with methanol followed by methanol:acetone. Fixed cells were stained with 5 ug/mL Monoclonal Anti-phospho-Histone H3 (pSer28), Clone: HTA28. The antibody was developed using Goat Anti-Rat IgG, FITC conjugate (green). Cells were counterstained with DAPI (blue) to stain nuclei.	
Flow Cytometry: Histone H3 [p Ser28] Antibody (HTA28) [NB600-1168] - FACS profile of human leukemic cells with Anti-phospho-Histone H3.	

Publications

Koopmans T, van Beijnum H, Roovers EF et al. Ischemic tolerance and cardiac repair in the spiny mouse (Acomys) NPJ Regen Med 2021-11-17 [PMID: 34789755]

Details:
Citation using the Alexa Fluor 647 format of this antibody.

Jarrosson L, Costechareyre C, Gallix F Et al. An avian embryo patient-derived xenograft model for preclinical studies of human breast cancers iScience 2021-12-01 [PMID: 34849474] (IF/IHC, Human)

Hoshino A, Ratnapriya R, Brooks MJ et al. Molecular Anatomy of the Developing Human Retina. Dev. Cell 2017-12-18 [PMID: 29233477] (Human)

Kicheva A, Bollenbach T, Ribeiro A et al. Coordination of progenitor specification and growth in mouse and chick spinal cord. Science. 2014-09-26 [PMID: 25258086] (IF/IHC)

Georgi SA, Reh TA. Dicer is required for the transition from early to late progenitor state in the developing mouse retina. J Neurosci. 2010-03-17 [PMID: 20237275] (IHC-Fr, Mouse)

Yin Y, White AC, Huh SH et al. An FGF-WNT gene regulatory network controls lung mesenchyme development. Dev Biol. 2008-07-01 [PMID: 18533146]

Goto, H. Identification of a novel phosphorylation site on histone H3 coupled with mitotic chromosome condensation. J Biol. [PMID: 10464286]

Stevens, HE et al. Fgfr2 Is Required For The Development Of The Medial Prefrontal Cortex And Its Connections With Limbic Circuits J. Neurosci 30, 5590 - 5602. 2010-01-01 [PMID: 20410112]

Smith, A et al. FGF stimulation of the Erk1/2 signalling cascade triggers transition of pluripotent embryonic stem cells from self-renewal to lineage commitment. Development 134, 2895-2902. 2007-01-01 [PMID: 17660198]

Mateescu, B et al. Tethering of HP1 proteins to chromatin is relieved by phosphoacetylation of histone H3 EMBO Rep. 5, 490-496. 2004-01-01 [PMID: 15105826]

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Products Related to NB600-1168

HAF005	Goat anti-Rat IgG Secondary Antibody [HRP]
F0105B	Goat anti-Rat IgG Secondary Antibody [Phycoerythrin]
NBP2-21947-0.1mg	Rat IgG2a Isotype Control (2A3)
NB21-1071PEP	Histone H3 [Monomethyl Lys9] Antibody Blocking Peptide

Limitations
This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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