Datasheet for ABIN3024807

anti-Histone antibody

5 Images

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Overview

Quantity:	100 µg
Target:	Histone
Reactivity:	Human, Rat, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	Un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS), Immunofluorescence (IF)

Product Details

Immunogen:	Nuclei of human leukemia biopsy cells were used as the immunogen for the Histone antibody.
Clone:	AE-4
Isotype:	IgG2a kappa
Purification:	Protein G affinity chromatography

Target Details

Target:	Histone
Background:	Eukaryotic histones are basic and water-soluble nuclear proteins that form hetero-octameric nucleosome particles by wrapping 146 base pairs of DNA in a left-handed super-helical turn sequentially to form chromosomal fiber. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form the octamer, formed of two H2A-H2B dimers and two H3-H4 dimers,

Target Details

	forming two nearly symmetrical halves by tertiary structure. Over 80 % of nucleosomes contain the linker Histone H1, derived from an intronless gene that interacts with linker DNA between nucleosomes and mediates compaction into higher order chromatin. Histones are subject to posttranslational modification by enzymes primarily on their N-terminal tails, but also in their globular domains. Such modifications include methylation, citrullination, acetylation, phosphorylation, sumoylation, ubiquitination and ADP-ribosylation.

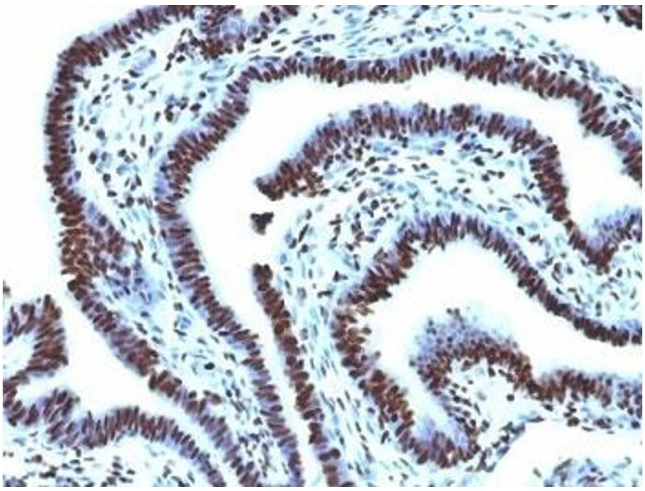
Application Details

Application Notes:	Optimal dilution of the Histone antibody should be determined by the researcher. 1. Staining of formalin/paraffin tissues requires boiling tissue sections in 10 mM Citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min. 2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.\. Western blot: 0.5-1 µg/mL, Flow Cytometry: 0.5-1 µg/million cells in 0.1ml,Immunofluorescence: 0.5-1 µg/mL,Immunohistochemistry (FFPE): 0.5-1 µg/mL for 30 min at RT (1),Prediluted format : incubate for 30 min at RT (2)
Restrictions:	For Research Use only

Handling

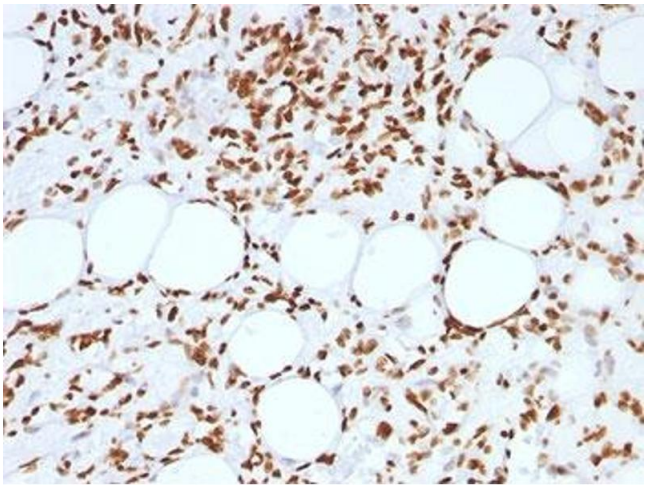
Concentration:	1 mg/mL
Buffer:	1 mg/mL in 1X PBS, BSA free, sodium azide free
Preservative:	Azide free
Storage:	4 °C,-20 °C
Storage Comment:	Store the Histone antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).

Images



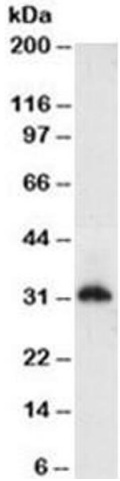
Immunohistochemistry (Formalin-fixed Paraffin-embedded Sections)

Image 1. Formalin-fixed, paraffin-embedded human ovarian carcinoma stained with Histone H1 antibody (AE-4)



Immunohistochemistry (Formalin-fixed Paraffin-embedded Sections)

Image 2. FFPE human angiosarcoma tested with Histone antibody (AE-4)



Western Blotting

Image 3. Western blot testing of HeLa cell lysate (nuclear fraction) with Histone antibody (clone AE-4). Observed molecular weight ~22/30-33kDa (unmodified/modified).

Please check the product details page for more images. Overall 5 images are available for ABIN3024807.