

Product Datasheet

Histone Antibody / Histone H1 (orb2638529)

Catalog Number	orb2638529
Category	Antibodies
Description	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, 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.
Clonality	Monoclonal
Species/Host	Mouse
Isotype	Mouse IgG2a, kappa
Conjugation	Unconjugated
Reactivity	Human, Mouse, Rat
Buffer/Preservatives	1 mg/ml in 1X PBS; rAlbumin free, sodium azide free
Purification	Protein G affinity chromatography
Immunogen	Nuclei of human leukemia biopsy cells were used as the immunogen for the Histone H1 antibody.
UniProt ID	P07305

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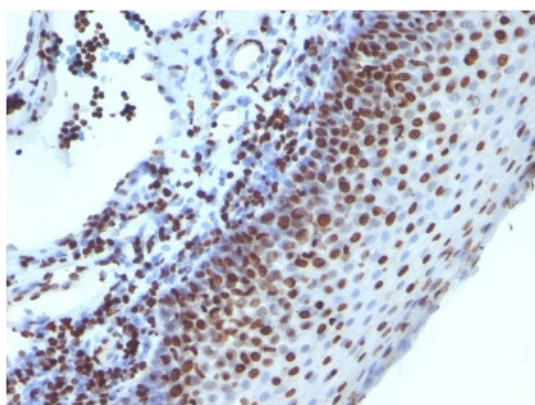
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Tested applications	FACS, IF, IHC-P, WB
Dilution range	Flow cytometry: 1-2ug/million cells, Immunofluorescence: 1-2ug/ml, Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT, Western blot: 1-2ug/ml
Application notes	Optimal dilution of the Histone antibody should be determined by the researcher. 1. Staining of formalin/paraffin tissues requires boiling tissue sections in 10mM 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. 3. View the recombinant form of this Histone H1 antibody.
Antibody Type	Primary Antibody
Clone Number	1415-1
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Expiration Date	12 months from date of receipt.



IHC: Formalin-fixed, paraffin-embedded human tonsil stained with Histone antibody (1415-1)

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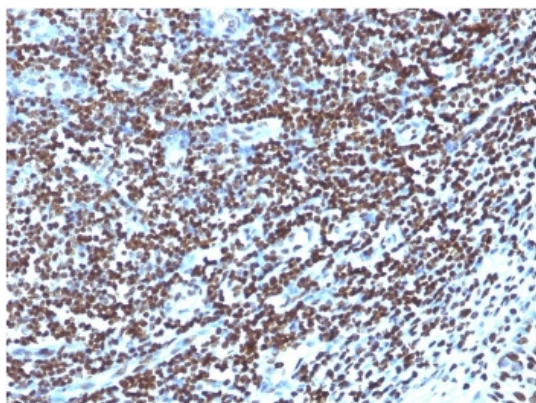
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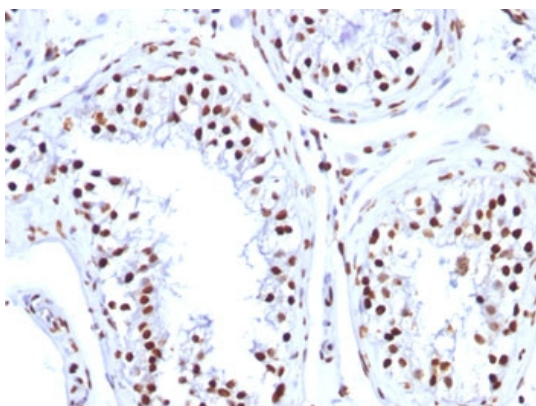
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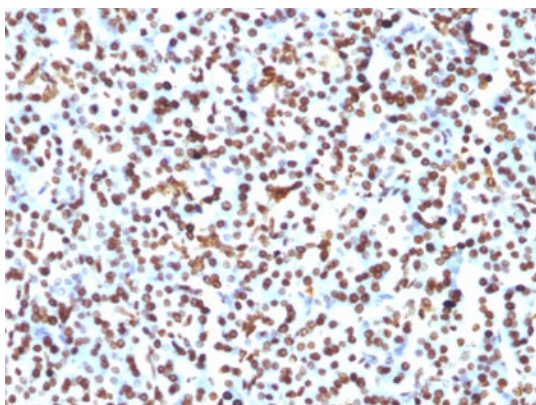
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IHC: Formalin-fixed, paraffin-embedded human tonsil stained with Histone antibody (1415-1)



IHC: FFPE human testicular carcinoma tested with Histone H1 antibody (1415-1)



IHC: FFPE human pancreas tested with Histone H1 antibody (1415-1)

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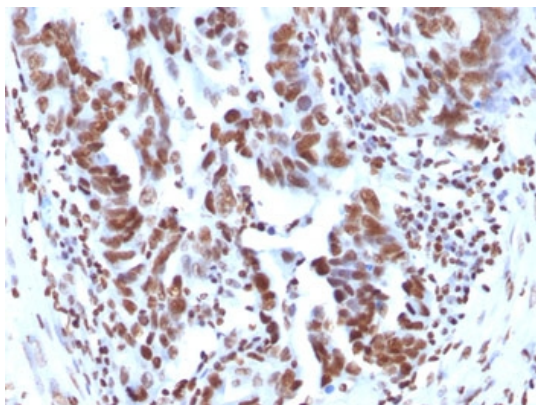
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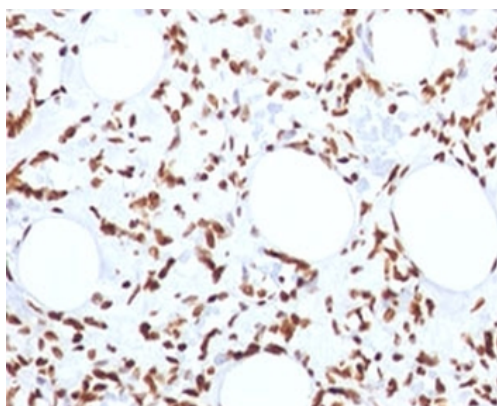
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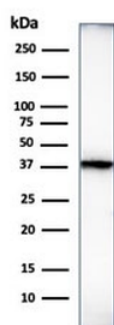
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IHC: FFPE human ovarian carcinoma tested with Histone H1 antibody (1415-1)



IHC: FFPE human angiosarcoma tested with Histone H1 antibody (1415-1)



Western blot testing of human heart lysate with Histone antibody (clone 1415-1). Observed molecular weight ~22/30-33kDa (unmodified/modified).

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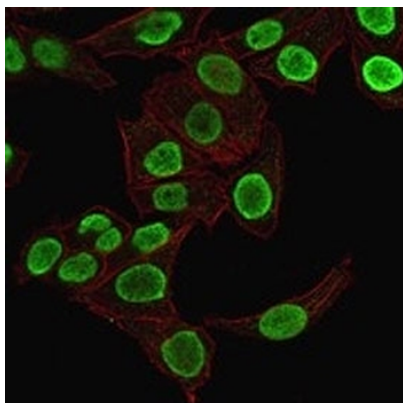
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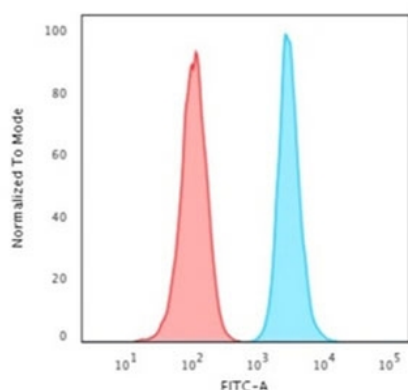
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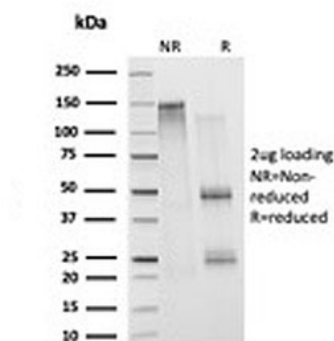
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Immunofluorescent staining of fixed human HeLa cells with Histone antibody (clone 1415-1, green) and Phalloidin (red).



Flow cytometry testing of fixed human HeLa cells with Histone antibody (clone 1415-1); Red = isotype control, Blue = Histone antibody.



SDS-PAGE analysis of purified, BSA-free Histone antibody (clone 1415-1) as confirmation of integrity and purity.

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