

## Product Datasheet

### Histone H3 K9ac Antibody (orb420399)

<b>Catalog Number</b>	orb420399
<b>Category</b>	Antibodies
<b>Description</b>	Histone H3 K9ac antibody
<b>Clonality</b>	Polyclonal
<b>Species/Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Conjugation</b>	Unconjugated
<b>Reactivity</b>	C. elegans, Human, Mouse
<b>Form/Appearance</b>	Liquid (sterile filtered)
<b>Concentration</b>	0.68 mg/ml
<b>Buffer/Preservatives</b>	Preservative: 0.01% (w/v) Sodium Azide. Stabilizer: 30% Glycerol; Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
<b>Purity</b>	Anti-Histone H3 [ac Lys9] was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody reacts with human Histone H3.2. A BLAST analysis was used to suggest cross-reactivity with Human, mouse, and C. elegans. Predicted to react with many species including rat, chicken, Xenopus, Drosophila, and plant based on 100% sequence homology. Cross-reactivity with Histone H3 from other sources has not been determined.
<b>Immunogen</b>	Histone H3 [ac Lys9] affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic acetylated peptide surrounding Lysine 9 of human Histone H3.2.
<b>UniProt ID</b>	<b>Q71DI3</b>

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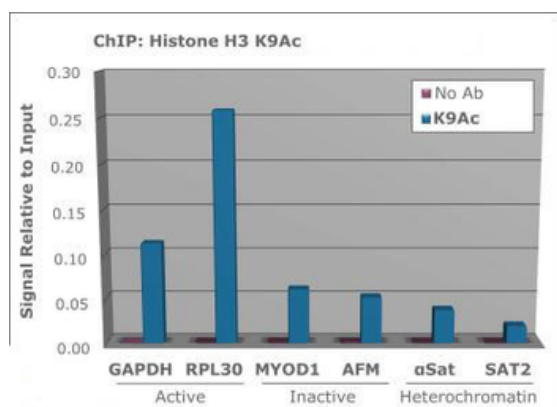
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<b>Tested applications</b>	ChIP, DOT, IF, IHC, WB
<b>Dilution range</b>	ChIP: 2-5µg/million cells, IHC: 1:100, IF: 1:100, WB: 1:500
<b>Application notes</b>	Anti-Histone H3 [ac Lys9] antibody is tested for Western Blot, Chromatin Immunoprecipitation, Dot Blot, and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~15.4 kDa corresponding to Histone H3 protein by Western Blotting in HeLa histone prep lysate or the appropriate cell lysate or extract. Epi-Plus antibody production in collaboration with Novus Biologicals.
<b>Antibody Type</b>	Primary Antibody
<b>Storage</b>	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
<b>Dry Ice Shipping</b>	<b>Please note: This product requires shipment on dry ice. A dry ice surcharge will apply.</b>
<b>Note</b>	For research use only
<b>NCBI</b>	<b>NP_001005464</b>
<b>Expiration Date</b>	12 months from date of receipt.



Chromatin Immunoprecipitation of Rabbit Anti-Histone H3 [ac Lys9] Antibody. Chromatin from one million formaldehyde cross-linked HeLa cells was used with 2 µg of Anti-Histone H3 K9ac was used to IP DNA from fixed HeLa cells alongside a no antibody (No Ab) control. DNA was measured by qRT-PCR and normalized to total input (input = 1).

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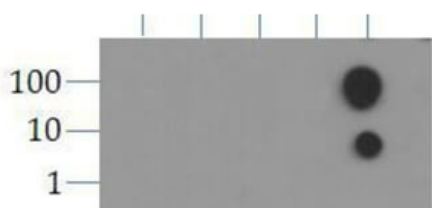
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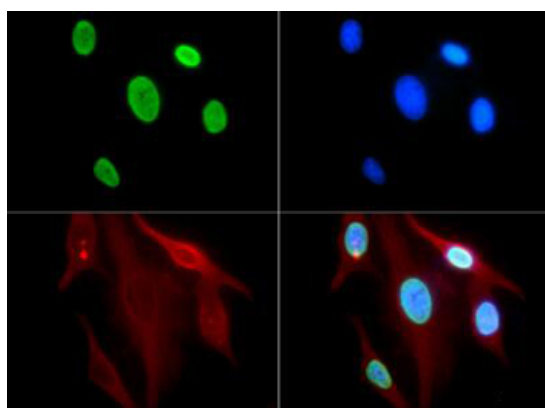
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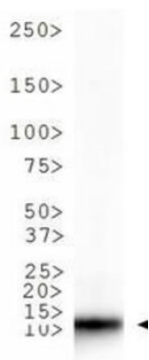
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Dot Blot of Rabbit Histone H3 [ac Lys9] Antibody. Lane 1: K9. Lane 2: K9 Me1. Lane 3: K9 Me2. Lane 4: K9 Me3. Lane 5: K9ac. Load: 1, 10, and 100 picomoles of peptide. Primary antibody: Histone H3 [ac Lys9] antibody at 1:1000 for 45 min at 4°C. Secondary antibody: Dylight™ 488 rabbit secondary antibody at 1:10000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C.



Immunofluorescence of Rabbit Anti-Histone H3 [ac Lys9] Antibody. Tissue: HeLa cells. Fixation: 0.5% PFA. Antigen retrieval: Not required. Primary antibody: Histone H3 [ac Lys9] antibody at a 1:100 dilution for 1 h at RT. Secondary antibody: FITC secondary antibody at 1:10000 for 45 min at RT. Localization: Histone H3 [ac Lys9] is nuclear and chromosomal. Staining: Histone H3 [ac Lys9] is expressed in green.



Western Blot of Rabbit Anti-Histone H3 [ac Lys9] Antibody. Lane 1: C. elegans embryo lysate. Load: 30 µg per lane. Primary antibody: Histone H3 [ac Lys9] at 1:500 for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: ~15 kDa. Other band(s): None.

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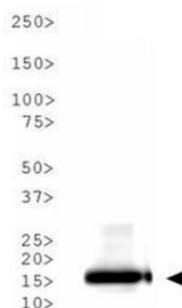
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Western Blot of Rabbit Anti-Histone H3 [ac Lys9] Antibody. Lane 1: HeLa histone preps. Load: 30  $\mu$ g per lane. Primary antibody: Histone H3 [ac Lys9] at 1:500 for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: ~15 kDa. Other band(s): None.



Western Blot of Rabbit Anti-Histone H3 [ac Lys9] Antibody. Lane 1: NIH-3T3 histone preps. Load: 30  $\mu$ g per lane. Primary antibody: Histone H3 [ac Lys9] at 1:500 for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: ~15 kDa. Other band(s): None.

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