

Product Datasheet

Histone H3 K4me3/K9ac Antibody (orb420431)

Catalog Number	orb420431
Category	Antibodies
Description	Histone H3 K4-Me3 antibody
Clonality	Polyclonal
Species/Host	Rabbit
Isotype	IgG
Conjugation	Unconjugated
Reactivity	Human, Mouse
Form/Appearance	Liquid (sterile filtered)
Concentration	0.46 mg/mL
Buffer/Preservatives	Preservative: 0.01% (w/v) Sodium Azide. Stabilizer: 30% Glycerol; Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Purity	Anti-Histone H3 [Trimethyl Lys4/ac Lys9] was affinity purified from monospecific antiserum by immunoaffinity chromatography. A BLAST analysis was used to suggest cross-reactivity with Human, mouse, rat, and C. elegans based on 100% sequence homology. Cross-reactivity with Histone H3 K4-Me3/K9-Ac from other sources has not been determined.
Immunogen	Anti-Histone H3 K4-Me3/K9-Ac affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide with a methylation surrounding Lysine 4 and an acetylation surrounding Lysine 9 of human Histone H3.
UniProt ID	Q71DI3

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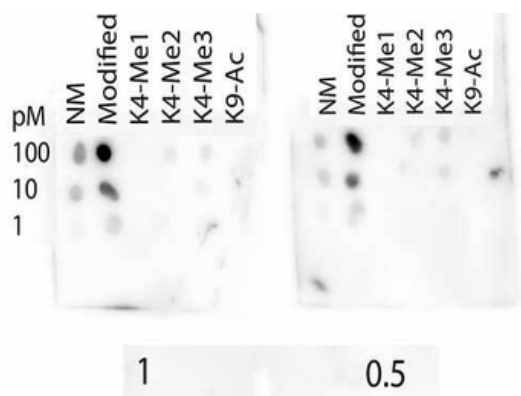
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Tested applications	DOT, IF, Multiplex Assay, WB
Dilution range	IF: 1:10, WB: 1:1000
Application notes	Anti-Histone H3 K4-Me3/K9-Ac antibody is tested for dot blot, IF, and Western Blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~15.4kDa corresponding to the appropriate cell lysate or extract. Epi-Plus antibody production in collaboration with Novus Biologicals.
Antibody Type	Primary Antibody
Storage	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.
Dry Ice Shipping	Please note: This product requires shipment on dry ice. A dry ice surcharge will apply.
Note	For research use only
Expiration Date	12 months from date of receipt.



Dot Blot of Rabbit Histone H3 K4-Me3/K9-Ac Antibody. Lane 1: K4/K9 unmodified. Lane 2: K4-Me3/K9-Ac. Lane 3: K4-Me1. Lane 4: K4-Me2. Lane 5: K4-Me3. Lane 6: K9-Ac. Load: 1, 10, and 100 picomoles of peptide. Primary antibody: Histone H3 K4-Me3/K9-Ac (RABBIT) antibody at 1:1000 for 45 min at 4°C. Secondary antibody: RABBIT IgG (H&L) Secondary Antibody Peroxidase Conjugated Pre-adsorbed at 1:40000 for 30 min at RT. Block: 5% BLOTTO 30 minutes at RT.

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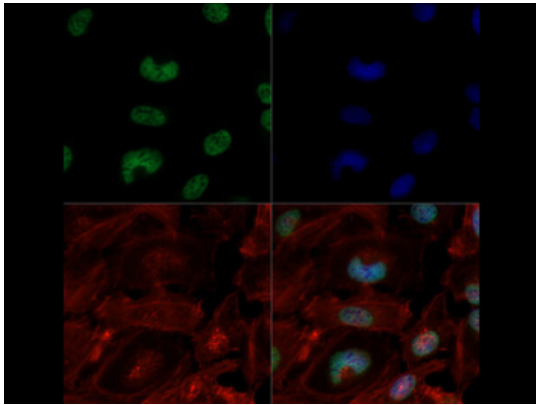
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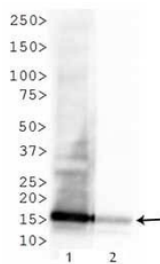
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Immunofluorescence of Anti-Histone H3 Me3 K4/Ac K9 me1: Histone H3 Trimethyl Lys4/ac Lys9 antibody was tested at 1:10 in HeLa cells with FITC (green). Cells and nuclei were counterstained with DAPI (blue) and DyLight 550 (red). (40X)



Western Blot of Histone H3 K4-Me3/K9-Ac (RABBIT) Antibody. Western Blot analysis against untreated cell extracts. Lane 1: Histone H3 nuclear marker. Lane 2: 3T3 cell lysates. Load: 35 μ g per lane. Primary antibody: Histone H3 K4-Me3/K9-Ac antibody at 1.0 μ g/ml 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 for Histone H3 K4-Me3/K9-Ac. Other band(s): none.

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