

Histone H3R17me2aK18ac antibody (pAb)

Catalog Nos: 61613, 61614 RRID: AB_2793702 Isotype: IgG Application(s): ChIP, DB, WB Reactivity: Human, Mouse, Wide Range Predicted Volumes: 100 µl, 10 µl Purification: Affinity Purified Host: Rabbit Molecular Weight: 17 kDa

Background: Histone H3 is one of the core components of the nucleosome. The nucleosome is the smallest subunit of chromatin and consists of 147 base pairs of DNA wrapped around an octamer of core histone proteins (two each of Histone H2A, Histone H2B, Histone H3 and Histone H4). Reported histone modifications include acetylation, methylation, phosphorylation, ubiquitylation, glycosylation, ADP-ribosylation, carbonylation and SUMOylation; these modifications play a major role in regulating gene expression.

The methylation of histones can occur on two different residues: arginine or lysine. Histone methylation can be associated with transcriptional activation or repression, depending on the methylated residues. Acetylation of histones occurs on lysine and is typically associated with activation of gene expression. Co-occurrence of two modifications adds an additional layer of complexity and regulation to the function of these modifications. Dual modification of H3R17me2aK18ac may play a role in enhancer function.

Immunogen: This antibody was raised against a synthetic peptide containing asymmetric dimethyl arginine 17 and acetyl lysine 18 of human Histone H3.

Buffer: Purified IgG in PBS with 30% glycerol and 0.035% sodium azide. Sodium azide is highly toxic.

Application Notes:

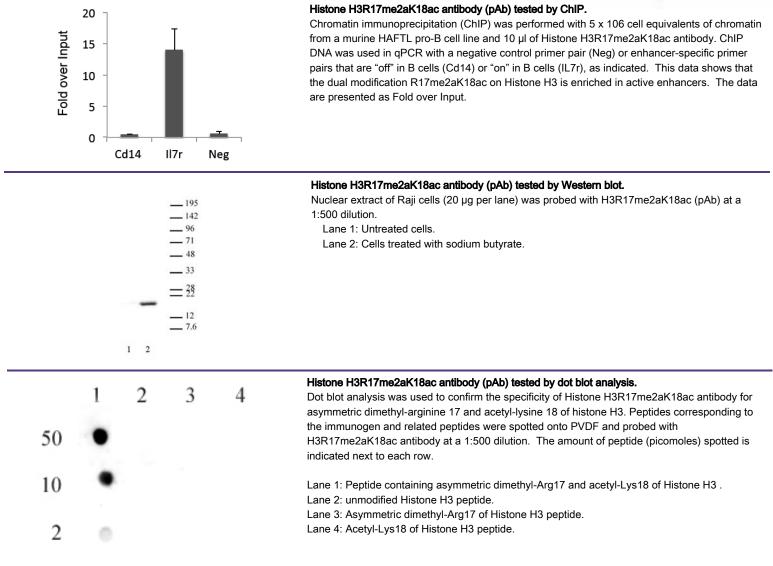
Applications Validated by Active Motif: ChIP: 10 µl per ChIP WB*: 1:500 - 1:1,000 dilution

*Note: many chromatin-bound proteins are not soluble in a low salt nuclear extract and fractionate to the pellet. Therefore, we recommend a High Salt / Sonication Protocol when preparing nuclear extracts for Western blot.

Storage and Guarantee: Some products may be shipped at room temperature. This will not affect their stability or performance. Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -20°C for up to 2 years. Keep all reagents on ice when not in storage. This product is guaranteed for 12 months from date of receipt.

This product is for research use only and is not for use in diagnostic procedures.





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