

## H3K36me3 polyclonal antibody - Premium

Purified rabbit polyclonal Antibody Catalog # ADN10276

### **Specification**

H3K36me3 polyclonal antibody - Premium - Product Information

Application E, DB, WB, IF

Primary Accession P68431

Reactivity Human, Mouse,

Rice Rabb

Host Rabbit
Clonality Polyclonal
Calculated MW 15404

H3K36me3 polyclonal antibody - Premium - Additional Information

**Gene ID** 8350;8351;8352;8353;8354;8355; 8356:8357:8358:8968

#### **Other Names**

Histone H3.1, Histone H3/a, Histone H3/b, Histone H3/c, Histone H3/d, Histone H3/f, Histone H3/h, Histone H3/i, Histone H3/j, Histone H3/k, Histone H3/l, HIST1H3A, H3FA

# Target/Specificity H3K36me3

#### **Precautions**

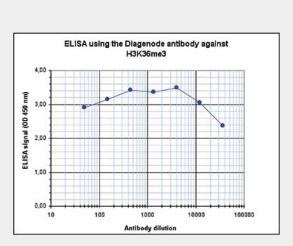
H3K36me3 polyclonal antibody - Premium is for research use only and not for use in diagnostic or therapeutic procedures.

H3K36me3 polyclonal antibody - Premium - Protein Information

### Name H3C1 (HGNC:4766)

#### **Function**

Core component of nucleosome.
Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of



To determine the titer of the antibody, an ELISA was performed using a serial dilution of the Diagenode antibody against H3K36me3 (Cat. No. ADN10276). The antigen used was a peptide containing the histone modification of interest. By plotting the absorbance against the antibody dilution (Figure 3), the titer of the antibody was estimated to be 1:132,000.

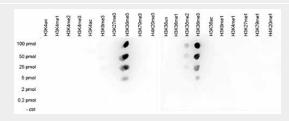


Figure 4A To test the cross reactivity of the Diagenode antibody against H3K36me3 (Cat. No. ADN10276), a Dot Blot analysis was performed with peptides containing other modifications or unmodified sequences of histone H3 and H4. One hundred to 0.2 pmol of the respective peptides were spotted on a membrane. The antibody was used at a dilution of 1:20,000. Figure 4A shows a high specificity of the antibody for the modification of interest. Figure 4B The specificity of the antibody was further demonstrated by peptide array analyses on an array containing 384 peptides with different combinations of modifications from histone H3, H4, H2A and H2B. The antibody





histones, also called histone code, and nucleosome remodeling.

**Cellular Location**Nucleus, Chromosome.

# H3K36me3 polyclonal antibody - Premium - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cvtometv
- Cell Culture

was used at a dilution of 1:10,000. Figure 4B shows the specificity factor, calculated as the ratio of the average intensity of all spots containing the mark, divided by the average intensity of all spots not containing the mark. The peptide array analysis shows a slight cross reaction with H4K20me3 that was not observed in dot blot.

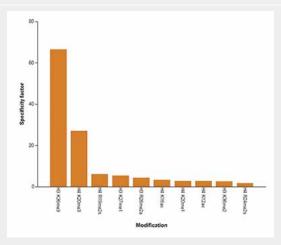
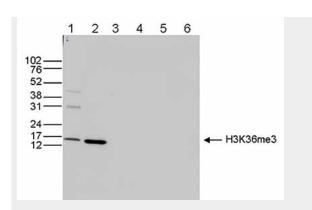


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Western blot was performed on whole cell (25  $\mu$ g, lane 1) and histone extracts (15  $\mu$ g, lane 2) from HeLa cells, and on 1  $\mu$ g of recombinant histone H2A, H2B, H3 and H4 (lane 3, 4, 5 and 6, respectively) using the Diagenode antibody against H3K36me3 (Cat. No. ADN10276). The antibody was diluted 1:1,000 in TBS-Tween containing 5% skimmed milk. The position of the protein of interest is shown on the right, the marker (in kDa) is shown on the left.



HeLa cells were stained with the Diagenode antibody against H3K36me3 (Cat. ADN10276) and with DAPI. Cells were fixed with 4% formaldehyde for 10' and blocked with PBS/TX-100 containing 5% normal goat serum and 1% BSA. The cells were immunofluorescently labeled with the H3K36me3 antibody (left) diluted 1:500 in blocking solution followed by an anti-rabbit antibody conjugated to Alexa488. The middle panel shows staining of the nuclei with DAPI. A merge of the two stainings is shown on the right.