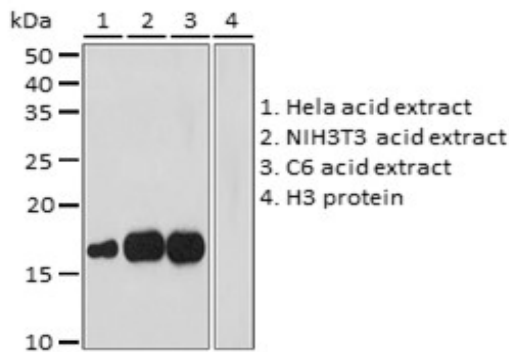
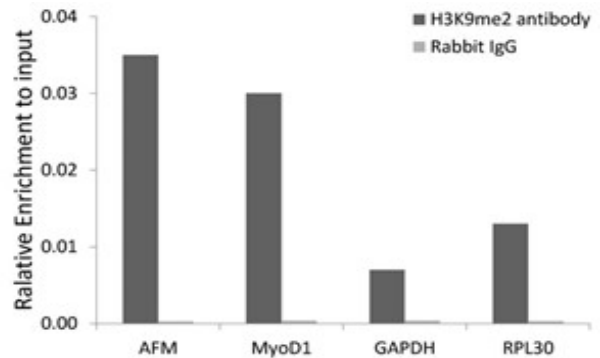


**Product Name:** DiMethyl-Histone H3-K9 Rabbit pAb  
**Catalog #:** Z9042-20; Z9042-100  
**Also Known As:** H3.4; H3/g; H3FT; H3t; HIST3H3; Histone H3; HIST1H3A  
**Quantity:** 20 µl for Z9042-20 ; 100 µl for Z9042-100  
**Concentration:** See labels on tube  
**Host Species:** Rabbit  
**Isotype:** IgG  
**Reactivity:** Human, Mouse, Rat  
**Immunogen:** A synthetic methylated peptide corresponding to residues surrounding K9 of human histone H3.  
**Swiss Prot. #:** Q16695  
**Calculated MW:** 15kDa  
**Detected MW:** 15kDa  
**Applications:** WB (1:500 - 1:2,000)  
 IHC (1:50 - 1:200)  
 IF (1:50 - 1:200)  
 CHIP (1:20 - 1:100)  
 IP (not tested)  
 Note: Antibody dilution should be optimized by users.

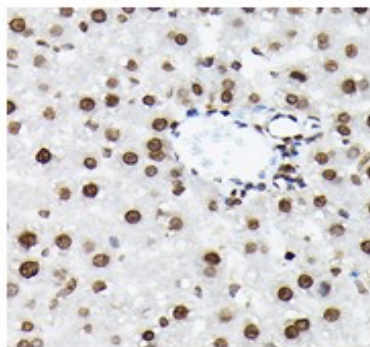
**Images:**



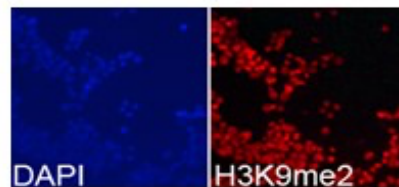
Immunoblotting 25 µg whole cell extracts of various cell lines using DiMethyl-Histone H3-K9 antibody (Z9042) at 1:1,000 dilution.



Chromatin immunoprecipitation analysis of 293T cell extracts using DiMethyl-Histone H3-K9 antibody (Z9042) and rabbit IgG.



Immunohistochemistry of rat liver using DiMethyl-Histone H3-K9 antibody (Z9042) at 1:50 dilution.



Immunofluorescence of 293T cells using DiMethyl-Histone H3-K9 antibody (Z9042) at 1:100 dilution. Blue: DAPI nuclear staining.

- Purification:** Protein A or G affinity purification
- Buffer:** PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
- Storage:** Store at -20°C. Centrifuge to maximize product recovery.
- Background:** Histone H3 is a 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 histones, also called histone code, and nucleosome remodeling. Lysine methylation occurs primarily on histones H3 (Lys4, 9, 27, 36, 79) and H4 (Lys20) and has been implicated in both transcriptional activation and silencing.
- Reference:**
1. Albig W, et al. (1996)Hum Genet 97, 486-491.
  2. Tachiwana H, et al. (2008) Nucleic Acids Res 36, 2208-2218.
  3. Lee DY, et al. (2005) Endocr Rev 26, 147-170.
- Note:** This product is for research use only.

