

# Anti-H3R8me2(asym) Antibody

CATALOG NO.: A2047-100 (100 µl)

**BACKGROUND DESCRIPTION:** Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene is intronless and encodes a replication-dependent histone that is a member of the histone H3 family. Transcripts from this gene lack poly A tails; instead, they contain a palindromic termination element. This gene is located separately from the other H3 genes that are in the histone gene cluster on chromosome 6p22-p21.3.

**ALTERNATE NAMES:** H3.4; H3/g; H3FT; H3t; HIST3H3; Histone H3; HIST1H3A

**ANTIBODY TYPE:** Polyclonal

**HOST/ISOTYPE:** Rabbit / IgG

**IMMUNOGEN:** A synthetic methylated peptide targeting residues around Arginine 8 of human histone H3

**MOLECULAR WEIGHT:** 18 kDa

**PURIFICATION:** Affinity purified

**FORM:** Liquid

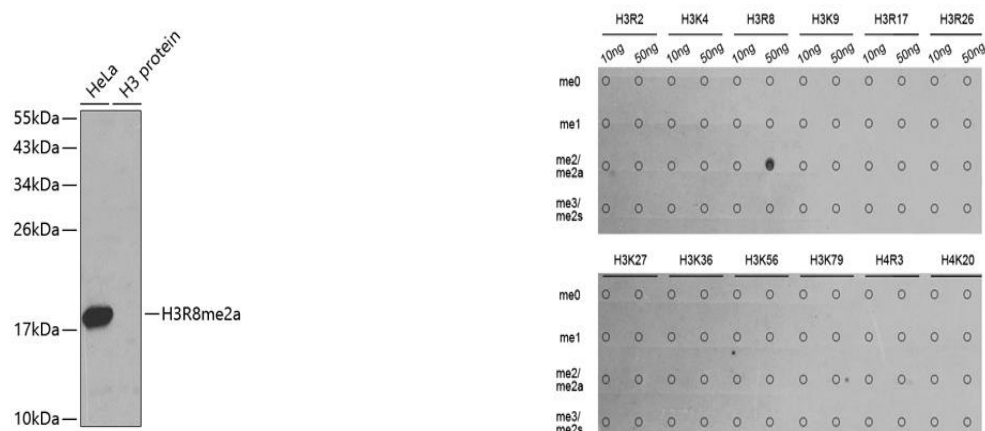
**FORMULATION:** In PBS with 0.02% sodium azide, 50% glycerol, pH7.3

**SPECIES REACTIVITY:** Human, Mouse, Rat

**STORAGE CONDITIONS:** Store at -20°C. Avoid freeze / thaw cycles

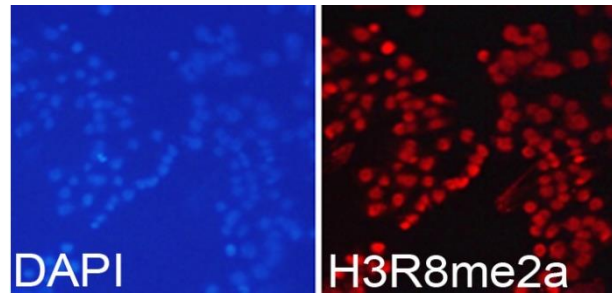
**APPLICATIONS AND USAGE:** WB 1:500 - 1:2000, IF 1:50 - 1:200

**Note:** This information is only intended as a guide. The optimal dilutions must be determined by the user



Western blot analysis of H3R8me2(asym) expression in HeLa cells and H3 protein. HRP-conjugated goat anti-rabbit IgG (H+L) was used as secondary antibody at 1:10000 dilution. 25 µg of lysates/proteins were loaded per lane. 3% nonfat dry milk in TBST was used as blocking buffer.

Dot-blot analysis of methylation peptides using Anti-H3R8me2(asym) antibody.



Immunofluorescence analysis of 293T cells using Anti-H3R8me2(asym) antibody. Blue: DAPI for nuclear staining.

**RELATED PRODUCTS:**

H3K79me1 polyclonal antibody (6811)  
H3R17me2 polyclonal antibody (6874)  
H3K27me2 polyclonal antibody (6816)  
H3K9me3 polyclonal antibody (6873)

***FOR RESEARCH USE ONLY! Not to be used on humans.***