USA Tel: 1-877-374-4368 • Int. Tel: 1-718-484-3990
sales@epigentek.com • www.epigentek.com

Histone H3R2 Dimethyl Asymmetric (H3R2me2a) Polyclonal Antibody

(Catalog # A-3714)

Background
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 member of the histone H3 family. Transcripts from this gene lack polyA 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.

Description
Histone H3R2 Dimethyl Asymmetric (H3R2me2a) Polyclonal Antibody. Unconjugated. Raised in: Rabbit.

Formulation
PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Specificity
Human, Mouse, Rat, Broad Range

Isotype
IgG

Uniprot ID
Q16695/P68431

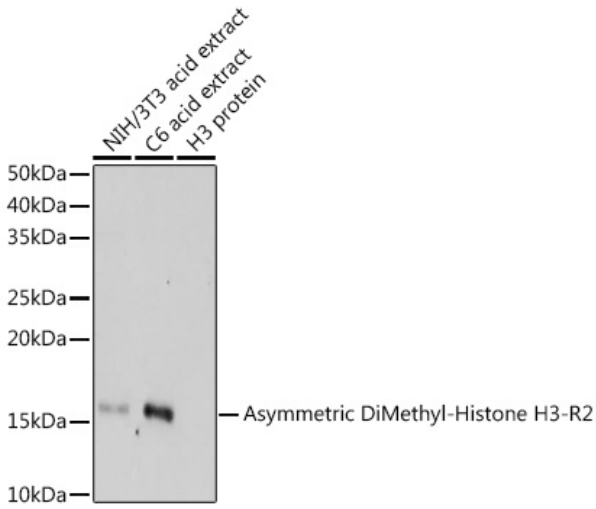
Purification
Affinity Purified

Immunogen
A synthetic asymmetric dimethylated peptide around R2 of human histone H3 (NP_003520.1)

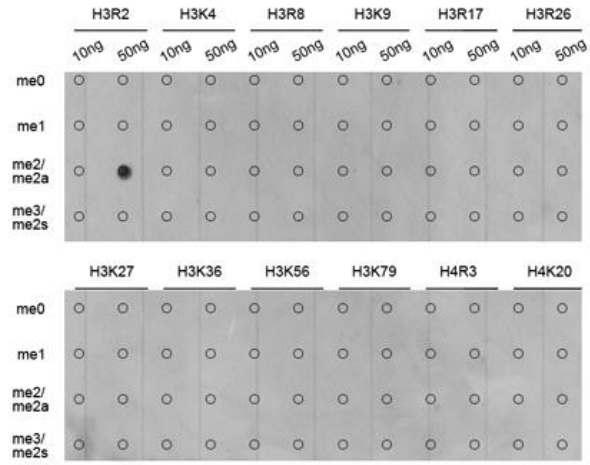
Storage
Shipped at 4°C. Upon receipt, store at -20°C. Avoid repeated freeze.

Alternative Names
H3R2me2a, HIST1H3J, H3/j , H3FJ , Histone H3.1, Histone H3/a, Histone H3/b, Histone H3/c, Histone H3/d, Histone H3/f, Histone H3/h , Histone H3/l, Histone H3/j , Histone H3/k, Histone H3/l, H3 Arginine 2 me2a

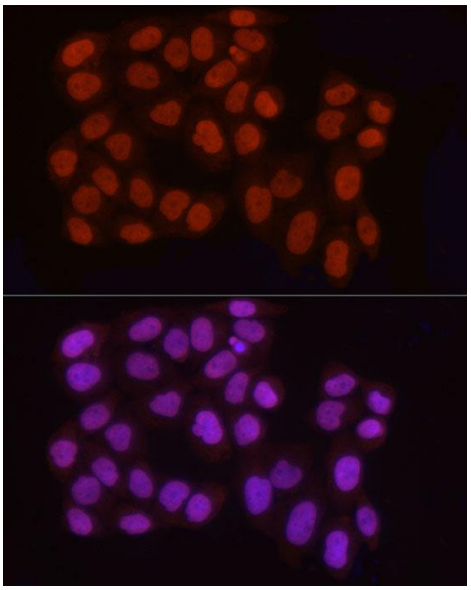
Application
WB, IF/ICC, ELISA; Recommended dilution: WB 1:100 - 1:500, IF/ICC 1:50 - 1:200, ELISA - recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.



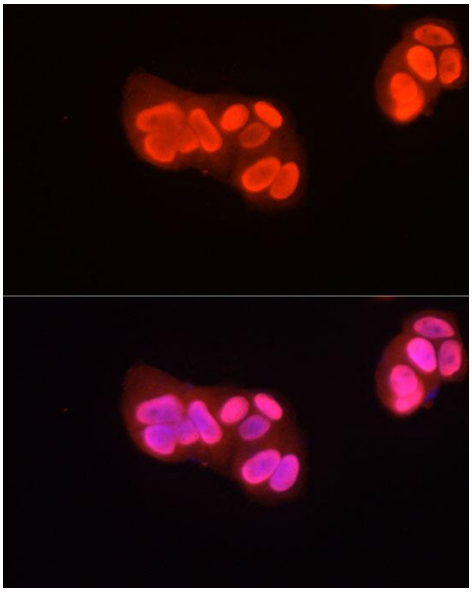
Western blot analysis of various lysates using Histone H3R2 Dimethyl Asymmetric (H3R2me2a) Polyclonal Antibody at 1:500 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Exposure time: 180s.



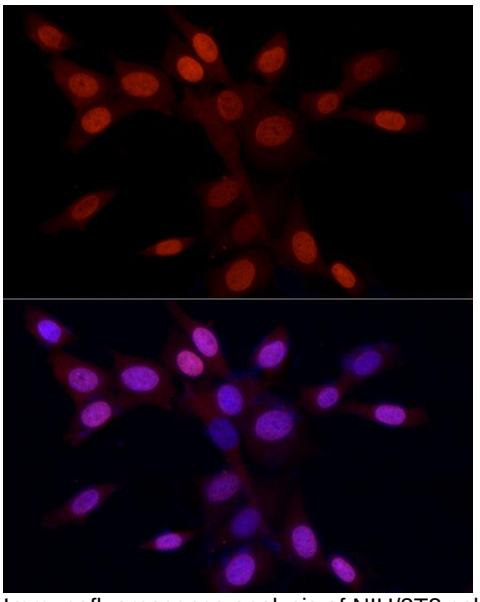
Dot-blot analysis of all sorts of methylation peptides using Histone H3R2 Dimethyl Asymmetric (H3R2me2a) Polyclonal Antibody.



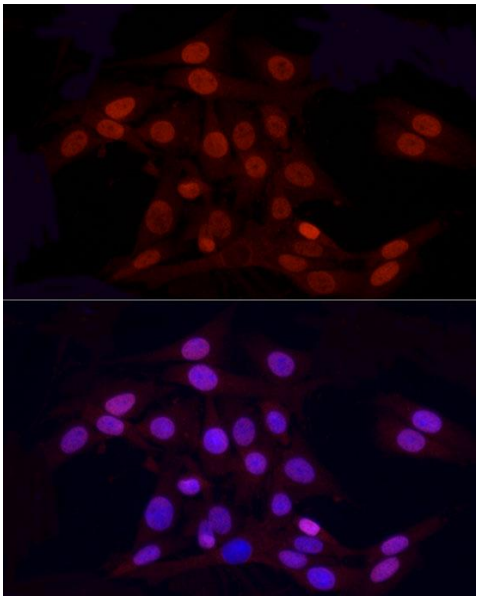
Immunofluorescence analysis of HeLa cells using Histone H3R2 Dimethyl Asymmetric (H3R2me2a) Polyclonal Antibody at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of MCF7 cells using Histone H3R2 Dimethyl Asymmetric (H3R2me2a) Polyclonal Antibody at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of NIH/3T3 cells using Histone H3R2 Dimethyl Asymmetric (H3R2me2a) Polyclonal Antibody at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of PC-12 cells using Histone H3R2 Dimethyl Asymmetric (H3R2me2a) Polyclonal Antibody at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) at 1:500 dilution. Blue: DAPI for nuclear staining.