

Symmetric DiMethyl-Histone H4-R3 Rabbit mAb

Catalog No.: A26243 **Recombinant**

Basic Information

Observed MW

15kDa

Calculated MW

11kDa

Category

Primary antibody

Applications

DB, WB, IF/ICC, IP, ELISA

Cross-Reactivity

Human, Rat

CloneNo number

ARC66296

Recommended Dilutions

DB 1:500 - 1:1000

WB 1:500 - 1:1000

IF/ICC 1:50 - 1:200

IP 0.5µg-4µg antibody for
200µg-400µg extracts of
whole cells

ELISA Recommended starting
concentration is 1 µg/mL.
Please optimize the
concentration based on
your specific assay
requirements.

Contact

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Background

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped around a nucleosome, an 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 H4 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is found in a histone cluster on chromosome 1. This gene is one of four histone genes in the cluster that are duplicated; this record represents the centromeric copy.

Immunogen Information

Gene ID

8359

Swiss Prot

P62805

Immunogen

A synthetic peptide corresponding to a sequence within amino acids 1-100 of human Histone H4 (NP_003539.1).

Synonyms

H4; H4/n; H4C1; H4C2; H4C3; H4C4; H4C5; H4C6; H4C8; H4C9; H4F2; H4FN; FO108; H4-16; H4C11; H4C12; H4C13; H4C15; H4C16; HIST2H4; HIST2H4A

Product Information

Source

Rabbit

Isotype

IgG

Purification

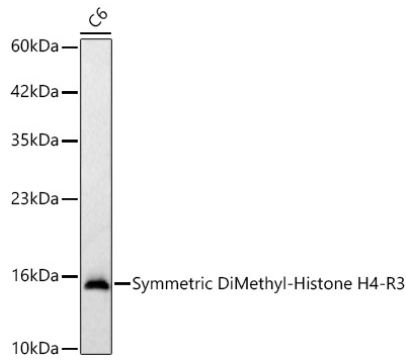
Affinity purification

Storage

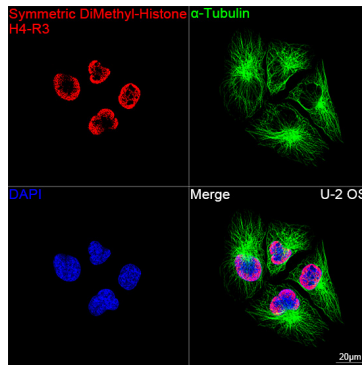
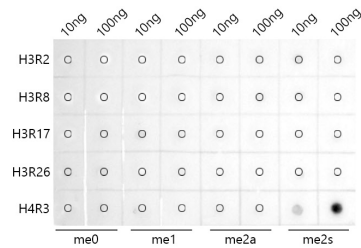
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300, 0.05% BSA, 50% glycerol, pH7.3.

Validation Data



Western blot analysis of lysates from C6 cells using Symmetric DiMethyl-Histone H4-R3 Rabbit mAb (A26243) at 1:1000 dilution incubated overnight at 4°C.
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
 Lysates/proteins: 25 µg per lane.
 Blocking buffer: 3% nonfat dry milk in TBST.
 Detection: ECL Basic Kit (RM00020).
 Exposure time: 10s.



Dot-blot analysis of H3R2me0, H3R2me1, H3R2me2a, H3R2me2s, H3R8me0, H3R8me1, H3R8me2a, H3R8me2s, H3R17me0, H3R17me1, H3R17me2a, H3R17me2s, H3R26me0, H3R26me1, H3R26me2a, H3R26me2s, H4R3me0, H4R3me1, H4R3me2a, H4R3me2s peptides using Symmetric DiMethyl-Histone H4-R3 Rabbit mAb (A26243) at 1:1000 dilution.

Confocal imaging of U-2 OS cells using Symmetric DiMethyl-Histone H4-R3 Rabbit mAb (A26243, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.