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Symmetric DiMethyl-Histone H4-R3 Rabbit mAb

Catalog No.: A26243 Recombinant

Basic Information

Observed MW
11kDa

Calculated MW
11kDa

Category
Primary antibody

Applications
WB,IF/ICC,DB,ELISA

Cross-Reactivity
Human, Rat

CloneNo number
ARC66296

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.

Recommended Dilutions

WB	1:1000 - 1:2000
IF/ICC	1:50 - 1:200
DB	1:500 - 1:1000
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
8359

Swiss Prot
P62805

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

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

Contact

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Product Information

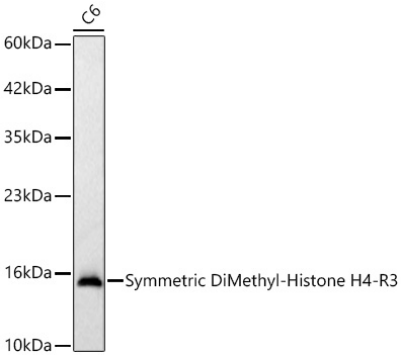
Source
Rabbit

Isotype
IgG

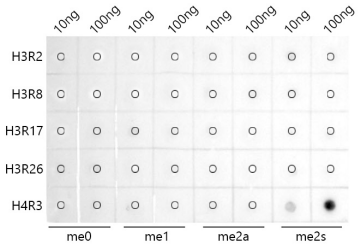
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

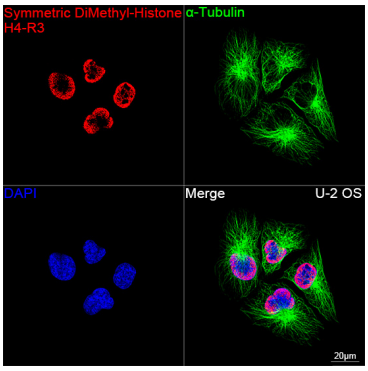
Validation Data



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℃.
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.