Rabbit Histone H4R3me2a Polyclonal Antibody | anti-H4R3me2a antibody

Histone H4R3me2a (asymmetric) antibody (pAb)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA59792	**Rabbit**	**Human, Wide Range Predicted**	**Western Blot, Immunofluorescence, Dot Blot, Chromatin Immunoprecipitation, Immunoprecipitation**

PRODUCT SYNONYMS

Histone H4R3me2a; Polyclonal Antibody; Histone H4R3me2a (asymmetric) antibody (pAb); anti-H4R3me2a antibody

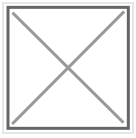
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Wide Range Predicted
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Protein A Chromatography
Form/Format	Purified rabbit IgG in PBS with 30% glycerol and 0.035% sodium azide. Sodium azide is highly toxic.
Applicable Applications for anti-H4R3me2a antibody	WB (Western Blot), IF (Immunofluorescence), DB (Dot Blot), ChIP (Chromatin immunoprecipitation)
Conjugation	Methylated
Immunogen	This Histone H4 dimethyl Arg3, asymmetric antibody was raised against a synthetic peptide containing dimethyl-Arg3 (asymmetric) of human histone H4.
Abs Residue	Arg
Preparation and Storage	Some products may be shipped at room temperature. This will not affect their stability or performance. Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -20 degree C for up to 2 years. Keep all reagents on ice when not in storage.1ug/ul

IMAGES

Application Data
Histone H4R3me2a (asymmetric) antibody (pAb) specificity tested by peptide array analysis. Peptide array analysis was used to confirm the specificity of this antibody for its intended modification. Histone H4R3me2a antibody was applied at a dilution of 1:20,000 to MODified Histone Peptide Array . The arrays were scanned with ArrayAnalysis Software 16 and the results plotted. Specificity data is shown for the most reactive peptides and those related to the immunogen.

DB (Dot Blot)
Histone H4R3me2a (asymmetric) antibody (pAb)tested by dot blot analysis. Dot blot analysis was used to confirm the specificity of Histone H4 dimethyl Arg3 asymmetric antibody for dimethyl-arginine 3 of histone H4. Peptides corresponding to the immunogen and related peptides were spotted onto PVDF and probed with Histone H4 dimethyl Arg3 asymmetric antibody at 1:2500. The amount of peptide (picomoles) spotted is indicated next to each row. Lane 1: H4R3me unmodified. Lane 2: H4R3me2a peptide. Lane 3: H4R3me2s peptide. Lane 4: H4R3me1 peptide.



WB (Western Blot)
Histone H4R3me2a (asymmetric) antibody (pAb)tested by Western blot. Nuclear extract of HeLa cells (20 ug) tested by Western blot using Histone H4R3me2a (asymmetric) antibody (pAb) at a dilution of 1:1000.

ADDITIONAL INFORMATION

Related Product Information for anti-H4R3me2a antibody	Short Description: Our Histone H4R3me2a (asymmetric) antibody (pAb) was raised in a Rabbit host. It has been validated for use in Chromatin Immunoprecipitation, Dot blot, Immunofluorescence and Western blot; it has been shown to react with Human samples, but it is predicted that it will react with a wide range of sample types. Background: Histone H4 is one of the core components of the nucleosome, the basic building block of chromatin. Histones are subject to a variety of chemical modifications, including post-translational modifications of the histone proteins and the methylation of cytosine residues in the DNA. Reported histone modifications include acetylation, methylation, phosphorylation, ubiquitylation, glycosylation, ADP-ribosylation, carbonylation and SUMOylation; these modifications play a major role in regulating gene expression. The methylation of histones can occur on two different residues: arginine or lysine. Asymmetric dimethylation of histone H4 at arginine 3 (Arg3), catalyzed by the PRMT methyltransferases, is associated with transcriptional activation by nuclear hormone receptors. Arg3 methylation has been reported to facilitate the subsequent acetylation of histone H4 by the acetyltransferase p300. Histone H4 dimethyl Arg3 asymmetric methylation (H4R2me2a) is catalyzed by PRMT1 and PRMT6.
Product Categories/Family for anti-H4R3me2a antibody	Primary Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	28173560
NCBI GeneID	121504
NCBI Accession #	NP_778224; AB_2793313
NCBI GenBank Nucleotide #	NM_175054.2
UniProt Accession #	P62805; P02304; P02305; Q6DRA9; Q6FGB8; Q6NWP7; A2VCL0; Q0VAS5; Q6B823
Molecular Weight	11,367 Da
NCBI Official Full Name	histone H4
NCBI Official Synonym Full Names	histone cluster 4, H4
NCBI Official Symbol	HIST4H4
NCBI Official Synonym Symbols	H4/p; HIST1H4A; HIST1H4B; HIST1H4C; HIST1H4D; HIST1H4E; HIST1H4F; HIST1H4H; HIST1H4I; HIST1H4J; HIST1H4K; HIST1H4L; HIST2H4A; HIST2H4B; MGC24116
NCBI Protein Information	histone H4; histone 4, H4; OTTHUMP00000239323
UniProt Protein Name	Histone H4
UniProt Gene Name	**HIST1H4A**
UniProt Synonym Gene Names	H4/A; H4FA
UniProt Entry Name	H4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
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