ChIPAb+ Trimethyl Histone H3 (Lys36)

Polyclonal Antibody Cat. # 17-10493

Lot # 3059387

Pack size: 25 Assays

Store at -20°C

FOR RESEARCH USE ONLY NOT FOR USE IN DIAGNOSTIC PROCEDURES NOT FOR HUMAN OR ANIMAL CONSUMPTION

Certificate of Analysis

page 1 of 3

Applications Species Cross-React	•	Epitope/ Region	Host Species	Molecular Weight	Accession #	
WB, ChIP, ICC, DB H, M	N/A	Methylated Lys36	Rb	~17 kDa	NP_003520	
Background	ChIP Primers, GA	PDH coding D2. Part	No.			
All ChIPAb+ antibodies are individually validated for chromatin precipitation, every lot, every time. Each ChIPAb+ antibody set includes control primers (tested every lot by qPCR) to biologically validate your IP results in a locus-specific context. The qPCR protocol and primer sequences are provided, allowing	of each primer sp coding region (chr1 build) . Store at -20° FOR: 5' GCC ATG G 3'	l containing 75 µL of 9 ecific for human GA 2:6647453+6647539 l C. TAG ACC CCT TGA	PDH 1. Ban hg19 280(18) 2. Lin, (706. AGA 3. Shi, 1 2450-2: 4. Ranc 17(2):9	do, O.J. (2007). Curr	lol Cell. 32(5):696- iiol. Chem. 282(4):	

Demonstrated to react with Human and

peptide sequence APATGGV(K)KPHRYRPGC

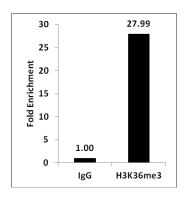
H3 trimethylated at Lys36 with

Linear peptide corresponding to human

H3 (Lys36) (Part No.CS207341) and the Magna ChIP[™] HiSens Kit (Cat. # 17-10460). Successful immunoprecipitation of trimethyl-Histone H3 (Lys36) associated DNA fragments was verified by qPCR using ChIP Primers, GAPDH coding D2 (Part No. CS207323) (Figure 1).

Please refer to the Magna ChIP™ HiSens (Cat. # 17-10460) or EZ-Magna ChIP™ HiSens (Cat. # 17-10461) protocol for experimental details.

Figure 1:



APPLICATION LEGEND: WB Western Blotting ChIP Chromatin Immunoprecipitation DB Dot Blot FC Flow Cytometry ChIP-Seq Chromatin Immunoprecipitation sequencing IHC Immunohistochemistry ICC Immunocytochemistry

SPECIES LEGEND: H Human M Mouse R Rat Rb Rabbit Am Amphibian B Bovine Ch Chicken () Predicted Reactivity Please visit www.millipore.com for additional product information, test data and references.

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Storage and Handling Stable for 1 year at -20°C from date of receipt. Handling Recommendations: Upon first thaw,

Molecular Weight

TTA T 3'

Mouse.

Histone

~17 kDa

Immunogen

Species Cross-reactivity

and prior to removing the cap, centrifuge the vial and gently mix the solution. Aliquot into microcentrifuge tubes and store at -20°C. Avoid repeated freeze/thaw cycles, which may damage IgG and affect product performance.

Controls

Includes normal rabbit IgG and primers specific for human GAPDH coding region.

Quality Control Testing

Chromatin Immunoprecipitation:

Sonicated chromatin prepared from HeLa cells (1e5 cell equivalents per IP) were subjected to chromatin immunoprecipitation using 0.1 µg of either Normal Rabbit IgG (Part No. CS200581), or 0.1 µg Anti-Trimethyl-Histone

and primer sequences are provided, allowing researchers to validate ChIP protocols when using our antibody in their chromatin context. Each set also includes a negative control antibody to ensure specificity of the ChIP reaction.

The ChIPAb+™ Trimethyl Histone H3 (Lys36) set includes a Trimethyl Histone H3 (Lvs36) antibody, a Normal Rabbit IgG, and positive control primers which amplify a 87 bp region of the human GAPDH coding region. The Trimethyl Histone H3 (Lys36) antibody and negative control IgG are supplied in a scalable "per ChIP" reaction size and can be used to functionally validate the precipitation of trimethyl Histone H3 (Lys36) associated chromatin.

Presentation

25 assays per set. Recommended use: 0.1 µg of antibody per chromatin immunoprecipitation (dependent upon biological context).

Components:

Anti-Trimethyl Histone H3 (Lys36) (Rabbit Polyclonal), Part No. CS207341. One vial containing 50 µL (0.05 mg/mL) purified rabbit polyclonal in buffer containing 0.1 M Tris-Glycine (pH7.4),150mM NaCl, and 0.05% sodium azide, before the addition of 30% glycerol. Store at -20°C.

Normal Rabbit IgG, Part No. CS200581. One vial containing 7.5 µg Rabbit IgG in 75 µL storage buffer containing 0.05% sodium azide. Store at -20°C.

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Additional Research Applications

Chromatin Immunoprecipitation:

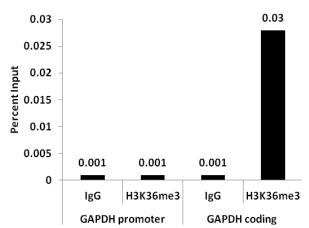
Sonicated chromatin prepared from HeLa cells (1e5 cell equivalents per IP) were subjected to chromatin immunoprecipitation using 0.1 µg of either Normal Rabbit IgG (Part No. CS200581), or 0.1 µg Anti-Trimethyl-Histone H3 (Lys36) (Part No.CS207341) and the Magna ChIP™ HiSens (Cat. # 17-10460). Successful immunoprecipitation of trimethyl-Histone H3 (Lys36) associated DNA fragments was verified by qPCR using ChIP Primers, GAPDH coding D2 (Part No. CS207323) as a positive locus, and GAPDH promoter (Part No. 22-004) as a negative locus. (Figure 2). Data are presented as percent input of each IP sample relative to input chromatin for each amplicon and ChIP sample as indicated.

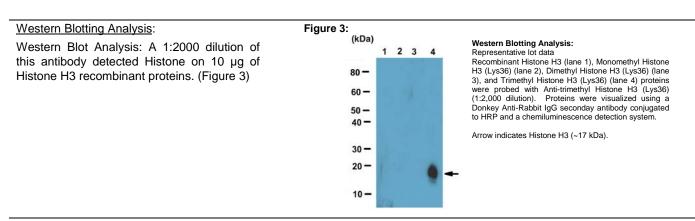
Please refer to the Magna ChIP™ HiSens (Cat. # 17-10460) or EZ-MagnaChIP™ HiSens(Cat. # 17-10461) protocol for experimental details.

Chromatin Immunoprecipitation:

GAPDH promoter primer sequences (chr12:6643539+6643704, hg19 build): F= TAC TAG CGG TTT TAC GGG CG R=TCG AAC AGG AGG AGC AGA GAG CGA





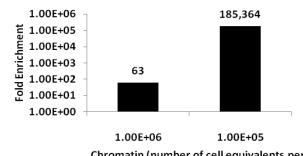


Chromatin Immunoprecipitation:

Sonicated chromatin prepared from HeLa cells (1e5 and 1e6 cell equivalents per IP) were subjected to chromatin immunoprecipitation using 0.1 µg of either Normal Rabbit IgG (Part No. CS200581), or 0.1 µg Anti-Trimethyl-Histone H3 (Lys36) (Part No.CS207341) and the Magna ChIP™ HiSens Kit (Cat. # 17-10460). Successful immunoprecipitation of trimethyl Histone H3 (Lys36) associated DNA fragments was verified by qPCR using ChIP Primers, GAPDH coding D2 (Part No. CS207323). Figure 4 shows enrichment over IgG.

Please refer to the Magna ChIP™ HiSens (Cat. # 17-10460) or EZ-Magna ChIP™ HiSens (Cat. # 17-10461) protocol for experimental details.

Figure 4:



Chromatin (number of cell equivalents per ChIP)



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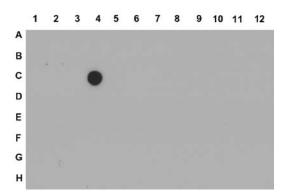
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Immunofluorescence Analysis: A representative lot was used by an independent laboratory in NIH/3T3 fibroblasts. (Laboratory of Dr. Rob Klose, Oxford University)

Dot Blot Analysis: A 1:500 dilution from a representative lot detected trimethyl Histone H3 (Lys36).

Figure 5:



Dot Blot Specificity Analysis: Representative lot data. Histone peptides with various modifications (see table) were transferred to PVDF membrane and probed with Anti-trimethyl Histone H3 (Lys36) (1:500 dilution). Proteins were visualized using a Donkey Anti-Rabbit IgG secondary antibody conjugated to HRP and a chemiluminescence detection system.

	1	2	3	4	5	6	7	8	9	10	11	12
A: 40 ng B: 4 ng	unmod Histone H3(Lys4)	z monomethyl- Histone H3(Lys4)	dimethyl- Histone H3(Lys4)	4 trimethyl- Histone H3(Lys4)	unmod Histone H3(Lys9)	monomethyl- Histone H3 (Lys9)	/ dimethyl- Histone H3 (Lys9)	trimethyl- Histone H3 (Lys9)	unmod. H3 (Lys27)	monomethyl- Histone H3 (Lys27)	dimethyl- Histone H3 (Lys27)	trimethyl- Histone H3 (Lys27)
C: 40 ng D: 4 ng	unmod H3 (Lys36)	monomethyl- H3 (Lys36)	dimethyl- H3 (Lys36)	trimethyl- H3 (Lys36)	unmod H3 (Lys37)	monomethyl- H3 (Lys37)	dimethyl- H3 (Lys37)	trimethyl- H3 (Lys37)	unmod. Histone H3 (Lys56)	monomethyl Histone H3 (Lys56)	unmod H3 (Lys79)	monomethyl- H3 (Lys79)
E: 40 ng F: 4 ng	dimethyl- H3 (Lys79)	trimethyl- H3 (Lys79)	unmod Histone H4 (Lys20)	monomethyl Histone H4 (Lys20)	dimethyl Histone H4 (Lys20)	trimethyl Histone H4 (Lys20)	unmod. H1.0 (Lys26)	monomethyl H1.0 (Lys26)	dimethyl H1.0 (Lys26)	trimethyl H1.0 (Lys26)	unmod. H2A (Lys127)	monomethyl H2A (Lys127)
G: 40 ng H: 4 ng	dimethyl H2A (Lys127)	trimethyl H2A (Lys127)	unmod. H2A (Lys118/119)	monomethyl- H2A (Lys118)	monomethyl- H2A (Lys119)	H2A (methyl- Lys118, ubiquityl- Lys119)	H2A (ubiquityl- Lys118, methyl- Lys119)		monomethy H2A (Lys17)	dimethy H2A (Lys17)	-	-



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