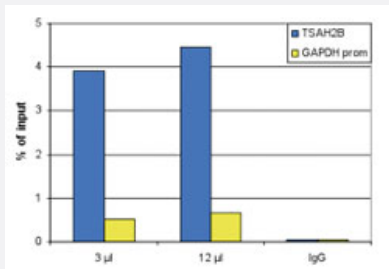


Histone H4 (K20me3) monoclonal antibody

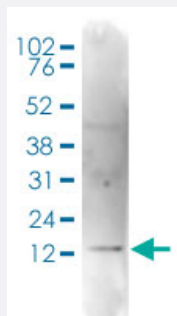
Catalog # MAB15831 Size 100 uL

Applications



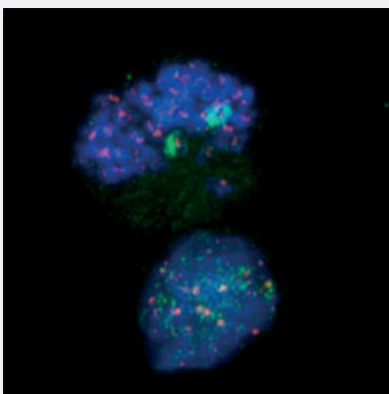
ChIP

ChIP assays were performed using human HeLa cells. 3 and 12 ul of antibody and 1 ug IgG (negative IP control) were analysed. QPCR was performed with primers for the GAPDH promoter and for the inactive gene TSH2B. The figure shows the recovery, expressed as a % of input (the relative amount of immunoprecipitated DNA compared to input DNA after qPCR analysis).



Western Blot (Cell lysate)

Western Blot (Cell lysate) analysis of 15 ug histone extracts of HeLa cells.



Immunofluorescence

Immunofluorescent staining of HEK293T cell line with antibody were labeled with goat-anti-mouse antibody conjugated to Alexa488 and goat-anti-human antibody conjugated to Alexa633. Cells were mounted with Vectashield containing DAPI.

Specification

Product Description

Mouse monoclonal antibody raised against synthetic peptide of Histone H4 (K20me3).

Immunogen	A synthetic peptide (conjugated with KLH) corresponding to Histone H4, trimethylated at lysine 20.
Host	Mouse
Reactivity	Human, Zebra fish
Form	Liquid
Purification	Concentrated supernatant
Isotype	IgG1
Recommend Usage	Western Blot (1:50) ChIP (3 ul/CHIP) Immunofluorescence (1:200) The optimal working dilution should be determined by the end user.
Storage Buffer	In mouse hybridoma cell culture concentrated supernatant (0.05% sodium azide).
Storage Instruction	Store at -20°C. For long term storage store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- ChIP

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Gene Info — HIST1H4A

Entrez GeneID [8359](#)

Protein Accession# [P62805](#)

Gene Name	HIST1H4A
Gene Alias	H4/a, H4FA
Gene Description	histone cluster 1, H4a
Omim ID	602822
Gene Ontology	Hyperlink
Gene Summary	Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and functions in the compaction of chromatin into higher order structures. This gene is intronless and encodes a member of the histone H4 family. Transcripts from this gene lack polyA tails but instead contain a palindromic termination element. This gene is found in the large histone gene cluster on chromosome 6. [provided by RefSeq]
Other Designations	H4 histone family, member A histone 1, H4a

Publication Reference

- [Role of annexin gene and its regulation during zebrafish caudal fin regeneration.](#)

Sandeep Saxena, Sruthi Purushothaman, Vuppalapaty Meghah, Bhawna Bhatti, Akhila Poruri, Mula G Meena Lakshmi, Nukala Sarath Babu, Ch Lakshmi Narasimha Murthy, Komal K Mandal, Arvind Kumar, Mohammed M Idris.

Wound Repair and Regeneration 2016 May; 24(3):551.

Application: ChIP, Zebrafish, Caudal fin

Pathway

- [Systemic lupus erythematosus](#)