



H4K20me1 Monoclonal Antibody (5E10-D8), ChIP-Verified

Product Details		
Size	100 μL	
Species Reactivity	Human	
Published Species	Human	
Host/Isotype	Mouse / IgG1	
Class	Monoclonal	
Туре	Antibody	
Clone	5E10-D8	
Conjugate	Unconjugated	
Immunogen	Synthetic peptide within Human Histone H4 (mono methyl K20)(Immunogen sequence: 15-AKRHR (Kme)VLRDN-25 (branched))	
Form	Liquid	
Concentration	1 mg/mL	
Purification	Protein G	
Storage buffer	PBS	
Contains	0.1% sodium azide	
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.	
RRID	AB_2539450	

Applications	Tested Dilution	Publications
Western Blot (WB)	1 μg/mL	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	Assay-dependent	-
Immunocytochemistry (ICC/IF)	Assay-dependent	-
Flow Cytometry (Flow)	Assay-dependent	-
ELISA (ELISA)	Assay-dependent	-
ChIP assay (ChIP)	1-5 µg	1 Publication
Dot blot (DB)	Assay-dependent	-

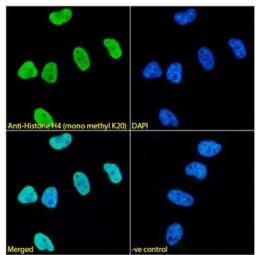
Product Specific Information

This antibody is specific for K20 mono-methylated histone H4 and does not cross-react with histone 3 or tri-, di-, or unmethylated histone H4. This antibody is predicted to react with Xenopus laevis, Arabidopsis thaliana, Fruit fly (Drosophila melanogast), and most mammals based on sequence homology.

This target has a predicted molecular weight of 11 kDa. Actual Western blot results show a band at 13 kDa. This can be blocked using mono-methyl K20 Histone H4 peptide.

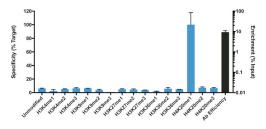
Click here for Master Lot linking information.

Product Images For H4K20me1 Monoclonal Antibody (5E10-D8), ChIP-Verified



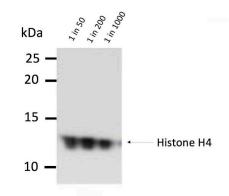
H4K20me1 Antibody (MA5-18067) in ICC/IF

Immunocytochemistry analysis of H4K20me1 in paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Samples were incubated with H4K20me1 monoclonal antibody (Product # MA5-18067) using a dilution of 1:100 for 1hr. Followed by Alexa Fluor® 488 secondary antibody at a 1:1,000 dilution, showing nuclear staining. The nuclear stain is DAPI (blue). Negative control: Mouse IgG1 negative control followed by Alexa Fluor® 488 secondary antibody.



H4K20me1 Antibody (MA5-18067)

Antibody specificity was demonstrated by detection of enrichment of the targeted histone modification using SNAP-ChIP™ Spike-in, a proprietary technology developed by EpiCypher™. SNAP-ChIP™ spike-in was performed using H4K20me1 Monoclonal Antibody (Product # MA5-18067) and H4K20me1 was enriched compared to the other histone modifications in the SNAP-ChIP™ K-MetStat Panel (Product # A47356). {SNAP-ChIP}



H4K20me1 Antibody (MA5-18067) in WB

Western blot analysis of H4K20me1 in HeLa histones. Samples were separated by 15% SDS-PAGE and blotted onto a nitrocellulose membrane. The membrane was blocked in 3% NFDM in PBS-T for 1h at RT and incubated at 4 °C overnight with H4K20me1 monoclonal antibody (Product # MA5-18067) at the indicated dilutions in 0.5% NFDM/PBS-T. After incubation with mouse Fc-HRP coupled with secondary antibody for 1h at RT, ECL was performed with the Western Lightning reagents. Shown is a 3-minute exposure.

View more figures on thermofisher.cn

□ 2 References

Western Blot (1)

Communications biology

Poly ADP-ribosylation of SET8 leads to aberrant H4K20 methylation in mammalian nuclear genome.

"MA5-18067 was used in Western Blotting to conclude that SET8 mediated chromatin remodeling in mammalian cells are modulated by poly ADP-ribosylation by PARP1."

Authors: Estève PO, Sen S, Vishnu US, Ruse C, Chin HG, Pradhan S

Year 2022

Species Human

ChIP assay (1)

Communications biology

Poly ADP-ribosylation of SET8 leads to aberrant H4K20 methylation in mammalian nuclear genome.

"MA5-18067 was used in Western Blotting to conclude that SET8 mediated chromatin remodeling in mammalian cells are modulated by poly ADP-ribosylation by PARP1."

Authors: Estève PO, Sen S, Vishnu US, Ruse C, Chin HG, Pradhan S

Year 2022

Species Human

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. No OTHER WARRANTIES, EXPERSES OR IMPECA BE GRANTED INITY, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, or vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.