H4K8ac Recombinant Rabbit Monoclonal Antibody (8H5L4), ChIP-Verified

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Monoclonal
Type	Antibody
Clone	8H5L4
Conjugate	Unconjugated
Immunogen	Acetylated peptide (Lys8) corresponding to Human H4 (aa 6-13)
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2532510

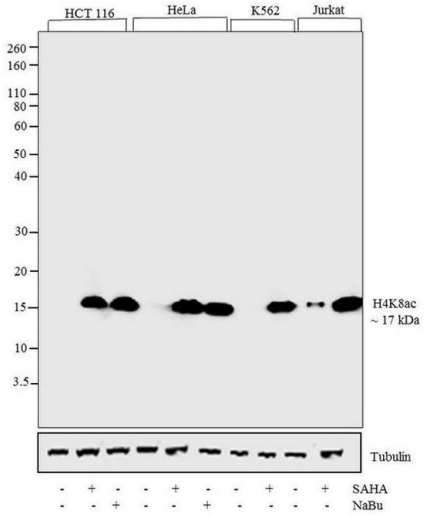
Applications	Tested Dilution	Publications
Western Blot (WB)	0.5-1 µg/mL	2 Publications
Immunocytochemistry (ICC/IF)	1 µg/mL	-
ChIP assay (ChIP)	1-5 µg	-
Peptide array (Array)	0.25 µg/mL	-

Product Specific Information

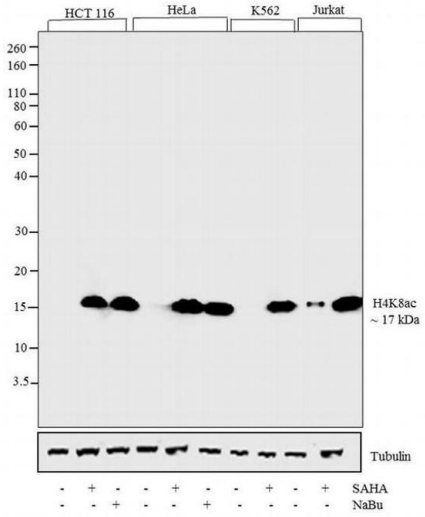
Since it is highly conserved across species, the antibody may react with many other species.

Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages of using recombinant rabbit monoclonal antibodies include: better specificity and sensitivity, lot-to-lot consistency, animal origin-free formulations, and broader immunoreactivity to diverse targets due to larger rabbit immune repertoire.

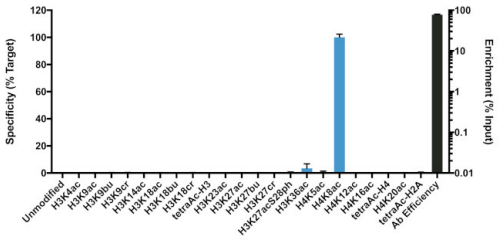
Product Images For H4K8ac Recombinant Rabbit Monoclonal Antibody (8H5L4), ChIP-Verified



H4K8ac Antibody (701796) in WB
Western blot analysis was performed on whole cell extracts (30 µg lysate) of HCT 116 (Lane1), HCT 116 treated with SAHA (0.5 uM/ 24 hours) (Lane 2), HCT 116 treated with sodium butyrate (5mM/ 24hours) (Lane 3), HeLa (Lane 4), HeLa treated with SAHA (0.5 uM/ 24 hours) (Lane 5), HeLa treated with sodium butyrate (5mM/ 24 hours) (Lane 6), K562 (Lane 7), K562 treated with SAHA (0.5 uM/ 24 hours) (Lane 8), Jurkat (Lane 9) and Jurkat treated with SAHA (0.5 uM/ 24 hours) (Lane 10). The blots were probed with Anti-Histone H4K8ac Recombinant Rabbit Monoclonal Antibody (Product # 701796 0.5-1 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal Secondary Antibody, HRP conjugate (Product # A27036, 0.4 µg/mL, 1:2500 dilution). A clear 17kDa band corresponding to Histone H4K8ac was observed across cell lines tested. Known quantity of protein samples were electrophoresed using Novex®NuPAGE®4-12% Bis-Tris gel (Product # NP0321BOX), XCell SureLock Electrophoresis System (Product # EI0002), and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary antibody following blocking with 5% skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western blotting Substrate (Product # 32106).



H4K8ac Antibody (701796)
Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot using Histone H4K8ac Recombinant Rabbit Monoclonal Antibody (Product # 701796) shows induction of expression of H4K8ac in HCT 116, HeLa, K562 and Jurkat cell lines upon treatment with SAHA/ Sodium butyrate. {TM}



H4K8ac Antibody (701796)
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 H4K8ac Recombinant Rabbit Monoclonal Antibody (Product # 701796) and H4K8ac was enriched compared to the other histone modifications in the SNAP-ChIP™ K-AcylStat Panel (Product # A47358). {SNAP-ChIP}

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2 References

Western Blot (2)

International journal of molecular sciences

Bortezomib-Induced Epigenetic Alterations in Nerve Cells: Focus on the Mechanisms Contributing to the Peripheral Neuropathy Development.

"701796 was used in Western Blotting to examine the effect of treating nerve cells, differentiated from the Lund human mesencephalic (dLUHMES) cell line, with several low-dose BTZ (0.15 nM) applications."

Authors: uczkowska K,Rogiska D,Kulig P,Bielikowicz A,Baumert B,Machaliski B

Year
2022

Species
Human

Dilution
1:1,000

The Journal of biological chemistry

Interferon regulatory factor 1 and a variant of heterogeneous nuclear ribonucleoprotein L coordinately silence the gene for adhesion protein CEACAM1.

"701796 was used in Western Blotting to study the coordinated silencing of the Carcinoembryonic antigen-related cell adhesion molecule 1 gene by interferon response factor 1 and a variant of heterogeneous nuclear ribonucleoprotein L."

Authors: Dery KJ,Silver C,Yang L,Shively JE

Year
2018

Species
Human