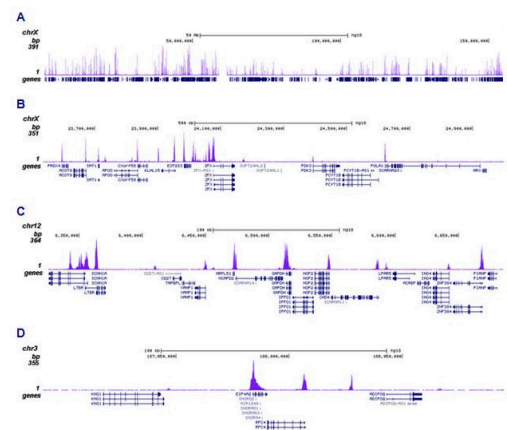


H3K56ac Polyclonal Antibody

Product Details	
Size	50 µg
Species Reactivity	Human, Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	KLH-conjugated synthetic peptide corresponding to human the region of histone H3 containing the acetylated lysine 56 (H3K56ac).
Form	Liquid
Concentration	0.8 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7.4
Contains	0.05% ProClin 300, 0.05% sodium azide
Storage conditions	-20°C or -80°C if preferred
RRID	AB_2608322

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500	-
Immunocytochemistry (ICC/IF)	5 µg/mL	-
ELISA (ELISA)	1:1000	-
ChIP assay (ChIP)	5 µg/1x10^6 cells	-
ChIP-sequencing (ChIP-Seq)	Assay-dependent	-
Peptide array (Array)	1:20,000	-

Product Images For H3K56ac Polyclonal Antibody

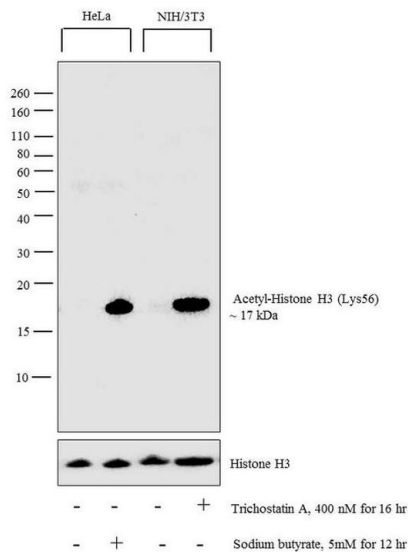


H3K56ac Antibody (PA5-40101) in ChIP-seq

ChIP was performed on sheared chromatin from 1.5 million HeLaS3 cells using 5 µg of Acetyl-Histone H3 (Lys56) polyclonal antibody (Product # PA5-40101). The IP'd DNA was subsequently analyzed on a HiSeq. The 51 bp tags were aligned to the human genome using the BWA algorithm. Figure 2 shows the enrichment along the complete sequence and a 1 Mb region of the X-chromosome (fig 2A and B) and in genomic regions of chromosome 12 and 3, surrounding the GAPDH and EIF4A2 positive control genes.

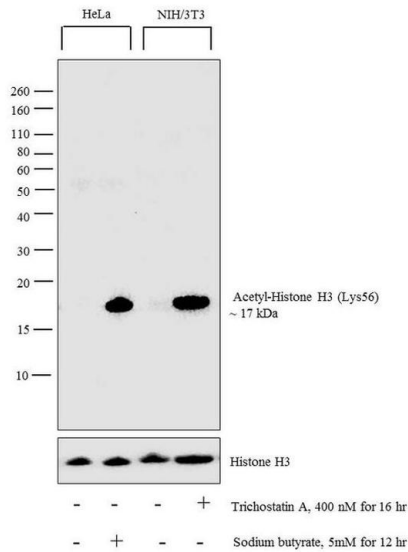
H3K56ac Antibody (PA5-40101)

Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot analysis of Acetyl-Histone H3 (Lys56) using Acetyl-Histone H3 (Lys56) antibody (Product # PA5-40101), shows increased expression of Acetyl-Histone H3 (Lys56) upon sodium butyrate treatment in HeLa cell line and trichostatin A treatment in NIH/3T3 cell line. {TM}



H3K56ac Antibody (PA5-40101) in WB

Western blot analysis was performed on acid extracts (20 µg lysate) of HeLa (Lane 1), HeLa (5mM Sodium Butyrate for 24 hr) (Lane 2), NIH/3T3 (Lane 3) and NIH/3T3 (400 nM Trichostatin A for 18 hr) (Lane 4). The blot was probed with anti-Acetyl-Histone H3 (Lys56) Rabbit Polyclonal (Product # PA5-40101, 1:500 dilution) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.25 µg/mL, 1:4000 dilution). A 17 kDa band corresponding to Acetyl-Histone H3 (Lys56) was enhanced upon treatment.



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