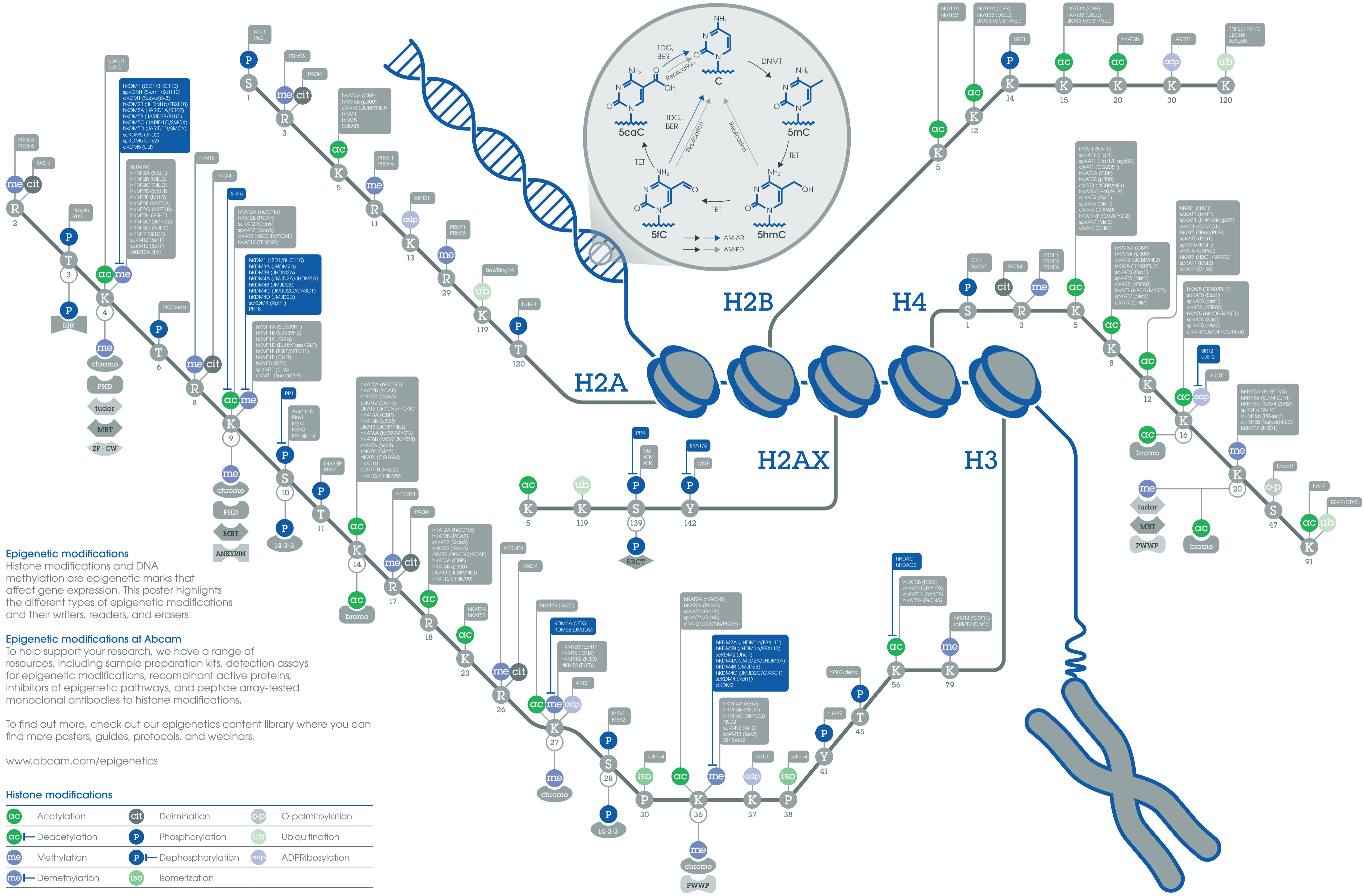


# Epigenetic modifications



## Histone modifications binding proteins

Chromodomain proteins		
CHD1	H3K4me2/3	
HP1/spSwi6	H3K9me2/3	
spChp1	H3K9me2/3	
CDY1	H3K9me2/3	
PC1/PC2/PC/LHP1	H3K27me3, H3K9me3	
MSL3	H3K36me3	
nMRG15	H3K36me, H3K4me3	
scEaf3	H3K36me, H3K4me3	
CBX1,3,5	H3K9me3/2	
MPP8	H3K9me3/2	
Tip60	H3K9me3/2	
CBX2,4,6,7,8	H3K27me3/2, H3K9me3/2	
MBT proteins		
PHF20L1	H3K4me1, H4K20me1	
SFMBT1	H3K9me1/2, H4K20me1/2	
L3M/BTL1	H4K20me1/2, H1hK26me1/2	
L3M/BTL1	H3K20me	
L3M/BTL1/2	H3K9me	
MBTD1	H3K20me	
PHD proteins		
scYng1	H3K4me2/3	
ING1,2,3,4,5	H3K4me2/3	
BPTF/dmNURF301	H3K4me2/3	
scSpp1	H3K4me2/3	
scSetf3	H3K4me2/3	
scJhd1	H3K4me3	
RA22	H3K4me3	
TAF3	H3K4me3	
ICBP90 (Np95)	H3K9me2/3	
JARID1C	H3K9me3	
JARID1A	H3K4me2/3	
KIAA1718	H3K4me2/3	
Lid	H3K4me2/3	
MLL1	H3K4me2/3	
PHF2,8	H3K4me2/3	
PHO23	H3K4me2/3	
Pygo	H3K4me2/3	
CHD4	H3K9me	
ICBP90	H3K9me	
SMCX	H3K9me	
DPF3	H3K14ac	
14-3-3 proteins		
14-3-3	H3S10p, H3S28p	
Tudor proteins		
JMJ22A	H3K4me3, H4K20me3	
53BP1	H4K20me1/2	
spCrb2	H4K20me2	
PHF20	H4K20me2	
TDRD3	H3R17me2a, H4R3me2a	
scSgf29	H3K4me2/3	
PHF19	H3K36me3	
PHF1	H3K36me3	
Bromodomain proteins		
Polybromo/BAF180	H3ac	
scSnf2	H3ac, H4ac	
Brd2,3,4,7	H3ac, H4ac	
TAF1	H3ac, H4ac	
P/CAF	H3ac, H4ac, H4K16ac	
CBP/p300	H3ac, H4ac	
scBdf1	H4ac	
nBRG1	H3K14ac	
scRsc1,2,4	H3K14ac (Rsc4)	
scGcn5	H4ac, H4K16ac	
ATAD2	H3K14ac	
BRDT	H4K5ac, H4K8ac, H3K18ac	
CBP/p300	H4K20ac, H3K36ac	
GCN5	H4K16ac	
PB-2	H3K14ac	
TRIM24	H3K23ac	
ZF-CW proteins		
ZCWPW1	H3K4me1/2	
ANKYRIN proteins		
G9a/GLP	H3K9me2/1	
PWWP proteins		
BRPF1	H3K36me3	
DNMT3A	H3K36me3	
PDP1	H4K20me1	
HDGF2	H3K36me3	
BRCT proteins		
MDC1	H2AXS139p (γH2AX)	
BIR proteins		
Survivin	H3T3p	

### Epigenetic modifications

Histone modifications and DNA methylation are epigenetic marks that affect gene expression. This poster highlights the different types of epigenetic modifications and their writers, readers, and erasers.

### Epigenetic modifications at Abcam

To help support your research, we have a range of resources, including sample preparation kits, detection assays for epigenetic modifications, recombinant active proteins, inhibitors of epigenetic pathways, and peptide array-tested monoclonal antibodies to histone modifications.

To find out more, check out our epigenetics content library where you can find more posters, guides, protocols, and webinars.

[www.abcam.com/epigenetics](http://www.abcam.com/epigenetics)

### Histone modifications

ac	Acetylation	cit	Deimination	O-p	O-palmitoylation
ac	Deacetylation	P	Phosphorylation	ub	Ubiquitination
me	Methylation	P	Dephosphorylation	adp	ADPRibosylation
me	Demethylation	iso	Isomerization		

Created by Abcam in collaboration with Tony Kouzarides and Andy Bannister (Gurdon Institute, Cambridge).