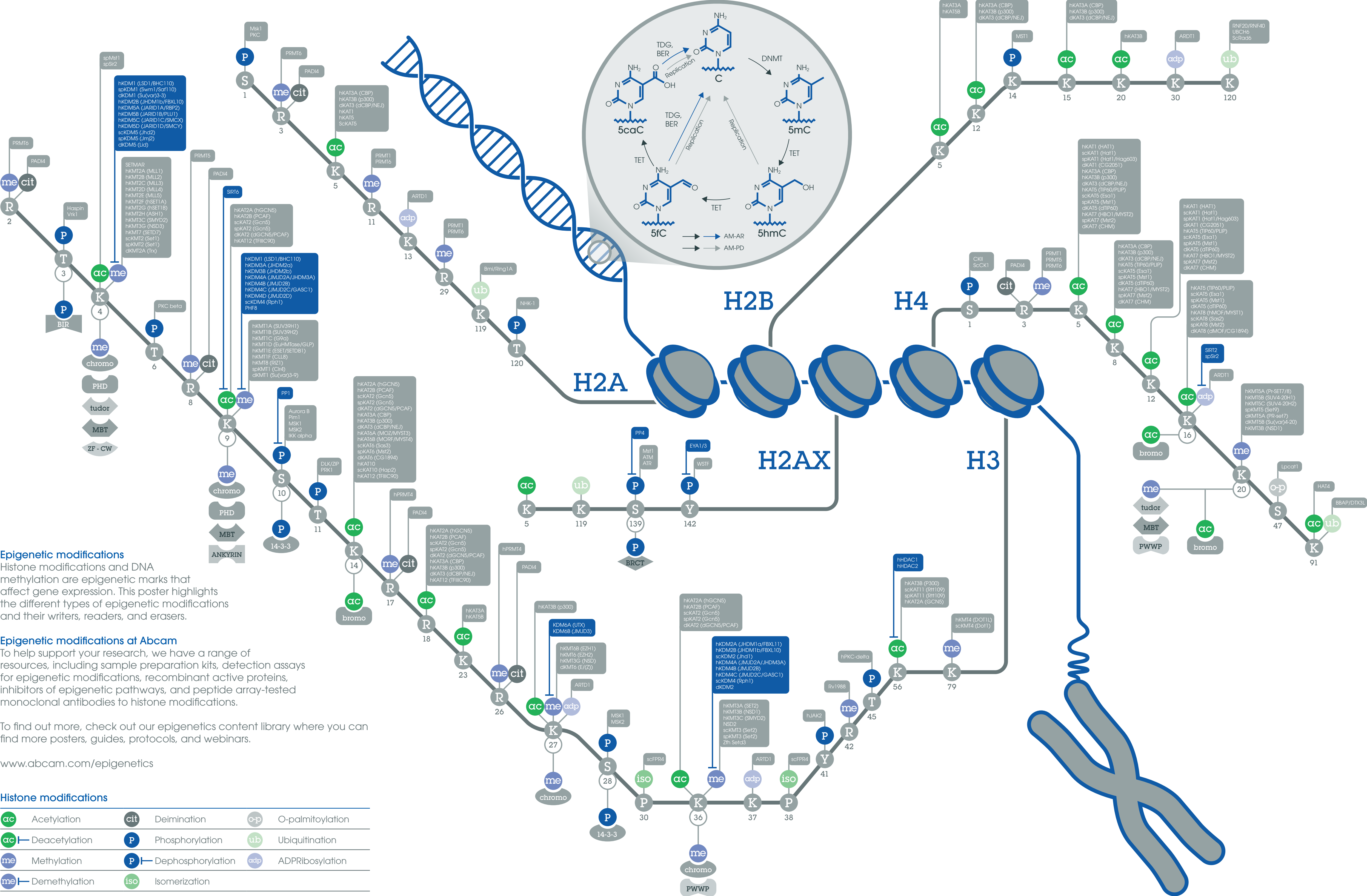


Epigenetic modifications



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

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

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	
SFM1	H3K9me1/2, H4K20me1/2	
L3MBTL1	H4K20me1/2, H1bK26me1/2	
L3MBTL1	H3K20me	
L3MBTL1/2	H3K9me	
MBTD1	H3K20me	
PHD proteins		
scVng1	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		
JMJD2A	H3K4me3, H4K20me3	
53BP1	H4K20me1/2	
spCrb2	H4K20me2	
PHF20	H4K20me2	
TDIRD3	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	
BRD7	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	
PWPP proteins		
BRPF1	H3K36me3	
DNMT3A	H3K36me3	
PDP1	H4K20me1	
HDGF2	H3K36me3	
BRCT proteins		
MDC1	H2AXS139p (γH2AX)	
BIR proteins		
Survivin	H3T3p	