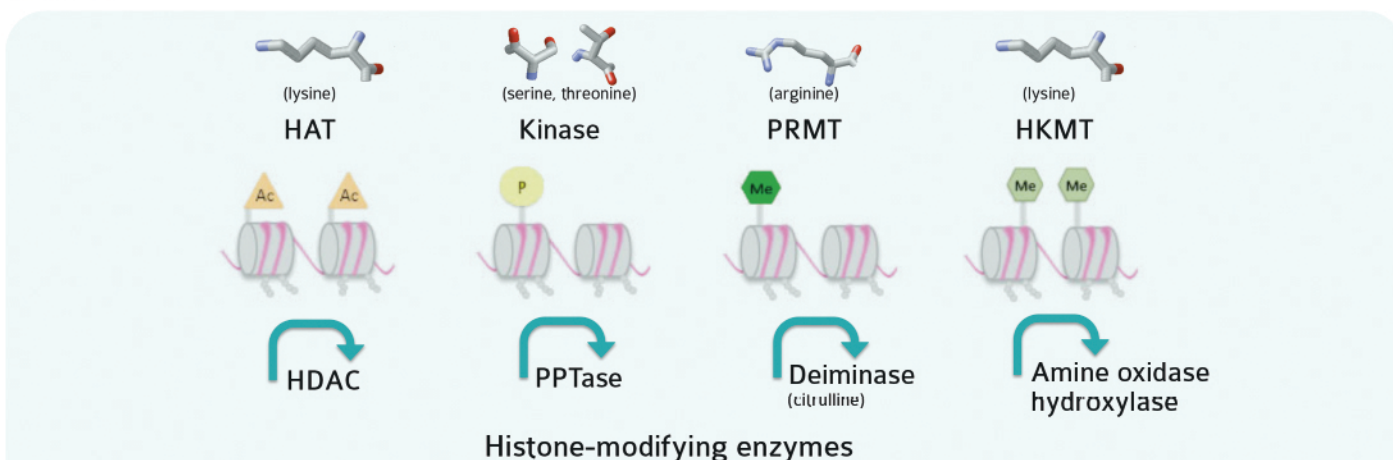


Epigenetics includes all the heritable changes other than DNA sequence modifications which are involved in the regulation of genic expression. In fact, lots of chemical reactions produced in the genome, like DNA methylation or histones modifications, are able to switch on or off genes expression.

Rapid progress in this research area is driven by the development of good and specific antibodies which are the key tools to elucidate the roles of epigenetic modifications in many diseases.

Here, we present a non exhaustive selection of antibodies in the field of epigenetics which are produced by Covalab.

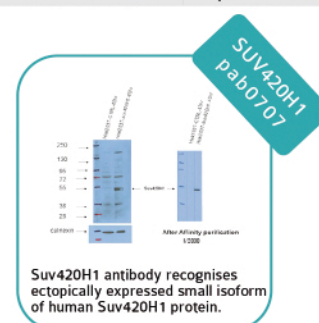
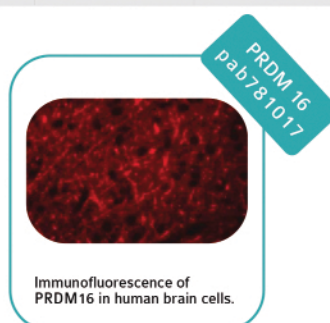
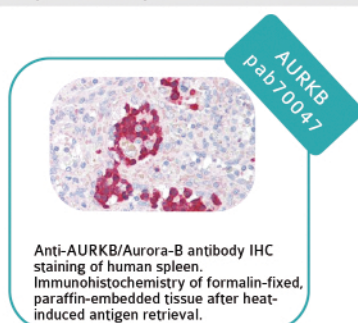


Covalent histones modifications are transduced by histone-modifying enzymes and removed by antagonizing enzymatic activities. They are classified into families according to the type of modification (eg: acetylation or phosphorylation).

HAT: histone acetyltransferase - PRMT: protein arginine methyltransferase - HKMT: histone lysine methyltransferase -HDAC: histone deacetylase -PPTase: protein phosphatase - (Ac): acetylation - (P): phosphorylation - (Me): methylation

Antibodies to Histone-Modifying Enzymes

Products	Host	Species	Applications	Cat N°
AURKB / Aurora-B (Internal)	Rabbit	Hu, Ms, Rat	IF, IHC - P, WB...	pab73795
Cbp/p300-interacting transactivator 2 (JA22)	Mouse	Hu	WB	mab50025
HDAC4 (N-Terminus)	Rabbit	Hu, Ms	IF, IHC - P, WB	pab72280
Histone-lysine N-methyltransferase (MLL5)	Rabbit	Ms	ELISA, IHC, WB	pab0461
Histone-lysine N-methyltransferase SUV420H1 (Suvai-1)	Rabbit	Hu	ELISA, WB, IHC	pab0707
JMJD1B	Rabbit	Hu, Ms, Rat	WB, IHC, IF...	pab80942
KAT2A / GCN5 (N-Terminus)	Rabbit	Hu	IHC - P, WB	pab72236
Protein arginine N-methyltransferase 1 (4B12)	Mouse	Hu	ELISA, WB, IHC	mab0010-P
Protein-arginine deiminase type-4 (PAD14)	Rabbit	Hu, Ms, Rat	IP, IHC, WB...	pab0199-P
PRMT5 (aa100)	Rabbit	Hu, Ms, Rat...	IHC - P, IP, WB	pab75194
PRMT6	Rabbit	Hu, Ms	ICC, IHC - P, WB	pab74451
PRMT7 (aa346-360)	Rabbit	Hu, Ms	IHC - P, WB	pab74486
PRDM16 (C-Terminus)	Rabbit	Hu, Ms, Rat	WB, IHC, IF...	pab81017



Antibodies to Modified Histones

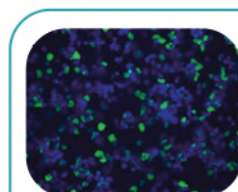
Products	Host	Species	Applications	Cat N°
Histone H3 citrulline R2 + R8 + R17	Rabbit	Hu	ELISA, IHC, WB	pab0208-P
Histone H3 citrulline R2 + R8 + R17 (7C10)	Mouse	Hu	ELISA, ICC, IF, FC	mab0072-P
Histone H3-asymmetric dimethyl R2 (H3-R2ADMA)	Rabbit	Hu	IHC, WB, FC...	pab0540-P
Histone H3 dimethyl K9	Rabbit	Hu	FC, IHC, WB...	pab0189
Histone H3 trimethyl K4 (4E12)	Mouse	Hu	ELISA, WB, IHC	mab0075-P
Histone H3 trimethyl K4 (5B7)	Mouse	Hu	ELISA, WB, IHC	mab0074-P
Histone H3 trimethyl K4	Rabbit	Hu	ELISA, WB, IHC	pab0687
Histone H3 monomethyl K4	Rabbit	Hu	ELISA, WB, IHC	pab0688
H2AX phospho S139	Rabbit	Hu, Ms, Rat	IHC - P, WB	pab72069
Histone H4 acetyl K5	Rabbit	Hu, Ms, Rat	IF, IHC - P, WB...	pab73878
Histone H1oo phospho S20	Rabbit	Ms	ELISA, WB	pab0431

Antibodies to DNA Methylation

Products	Host	Species	Applications	Cat N°
DNA (cytosine-5)-methyltransferase 1	Rabbit	Hu	WB, ICC, IF...	pab50030
DNA (cytosine-5)-methyltransferase 3B	Rabbit	Hu, Ms	IP, WB	pab50031
DNMT1 (Internal)	Goat	Hu, Ms, Rat	ELISA, IHC - P, WB	pab73116
DNMT1 (aa1603-1616)	Rabbit	Hu	ELISA, IHC - P	pab74665
DNMT1 (aa177-550)	Chicken	Hu	IHC - P, WB	pab74189
DNMT1 (aa637-650) (60B1220.1)	Mouse	Hu, Ms, Zfi	ChIP, IHC - P, WB...	mab70194
DNMT3A (aa170-220)	Rabbit	Hu, Chick, Ms...	IHC - P, WB	pab74168
DNMT3B (N-Terminus)	Rabbit	Hu	IF, IHC - P, WB...	pab73770
MECP2 (4B6)	Mouse	Hu, Ms, Rat	ELISA, IHC - P, WB	mab70864
Methyl-CpG-binding domain protein 2 (MBD2)	Rabbit	Hu	ELISA, IHC, IP, WB	pab0518-P
MTA2 (aa650-700)	Rabbit	Hu Ms, Rat...	IHC - P, WB	pab72171
MTA2 (aa52-8)	Rabbit	Hu, Ms, Rat	ICC, IHC - P, WB	pab75400

Antibodies to Chromatine Architecture

Products	Host	Species	Applications	Cat N°
BANF1 (3A4-4C7)	Mouse	Hu	IF, IHC - P, WB...	mab70688
CBX5 / HP1α (Internal)	Goat	Hu, Ca, Ms...	ELISA, IHC - P, WB	pab72379
CENPA (aa130-140)	Goat	Hu	IHC - P	pab73534
CHD7 (Internal)	Goat	Hu, Ms, Rat	ELISA, IHC - P	pab74196
CENPA (aa130-140)	Goat	Hu	IHC - P	pab73534
Centromeric Histone 3	Rabbit	O. satī.	ELISA, IHC, WB	pab0373
Histone H1.2	Rabbit	Hu	ELISA, WB, IHC	pab0653
Histone H2AX	Rabbit	Hu	WB, IHC, IF...	pab0691-P
Histone H2A.Z	Rabbit	Hu, Ms, Rat	ELISA, WB, IHC	pab0814-P
Histone H3 (N-Terminus)	Rabbit	Hu, Ms, Rat	ELISA, IHC - P, WB	pab74124
Inner Centromere-Like Protein (INCENP)	Rabbit	Hu	ICC, IHC, WB...	pab50201
SMARCA4 / BRG1 (aa2-14)	Goat	Hu, Ms, Rat...	IHC - P	pab73543

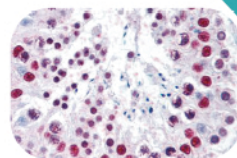


HL60 cells treated with DMSO and calcimycin
Green: anti-citrullinated histone H3 (R2, R8, R17)
Blue: Hoechst



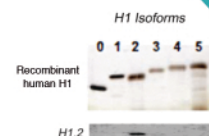
Detection of human citrullinated histone H3 (R2, R8, R17) at 1/10 000 dilution

H3 Cit (R2,R8,R17)
mab0072-P



Anti-MECP2 antibody IHC staining of human testis. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.

MECP2
pab74525



Anti-histone H1.2 western blot at 1/2000 dilution.

Histone H1.2
pab0653

*Applications abbreviations - ChIP: chromatin IP - ELISA: enzyme-linked immunosorbent assay - FC: flow cytometry - ICC: immunocytochemistry - IHC: immunohistochemistry - IHC-P: immunohistochemistry - Paraffin section - IP: immunoprecipitation - WB: western blot - IF: immunofluorescence. Species abbreviations - Ca: Canine - Chick: Chicken - Zfi: Zebrafish - Hu: Human - Ms: Mouse - O.sati.: Oryza sativa.

Need more information ? Contact us

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