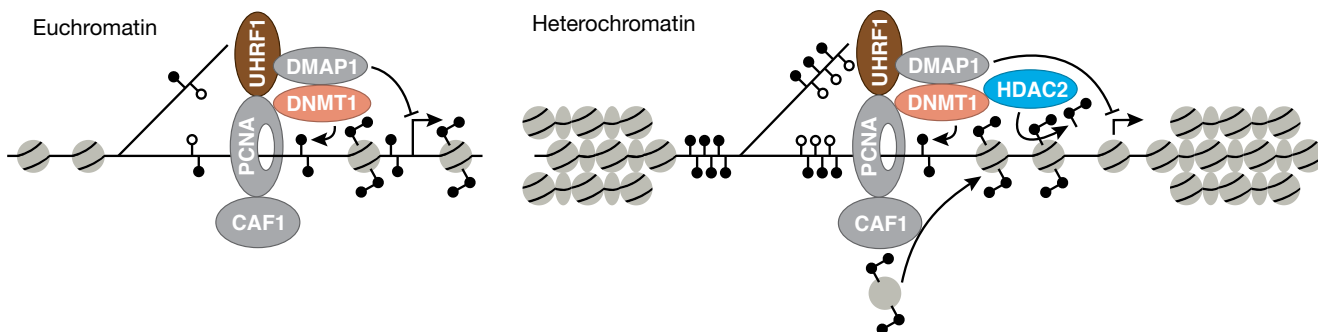
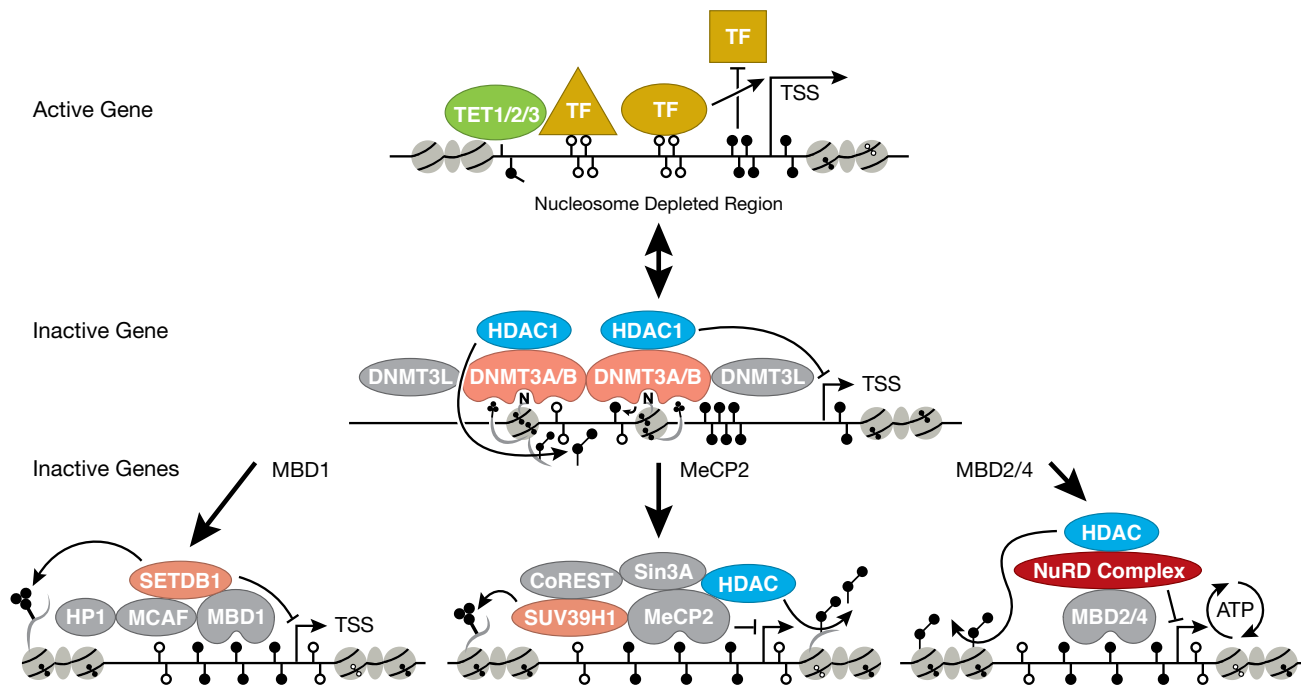


DNA Methylation

Maintenance Methylation During DNA Replication

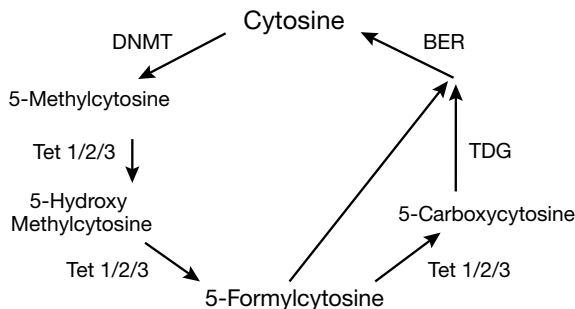


De Novo Cytosine Methylation



Tet-Mediated Cytosine Demethylation

Key	
⚭	– Cytosine
⚭	– Methylcytosine
⚭	– 5-Hydroxy Methylcytosine
⚭	– H3K9me3
N	– H3K4me0
⚭	– H3K36me3
⚭	– H3K27 Acetyl



Maintenance Methylation During DNA Methylation

Visit www.cellsignal.com for a full listing of antibodies, related kits, and reagents.

ANTIBODIES & KITS

	APPLICATIONS	REACTIVITY
#36836 5-Carboxylcytosine (5-caC) (D7S8U) Rabbit mAb	IF-IC Dot Blot	All
#5480 CHAF1A (D77D5) XP® Rabbit mAb	WB, IP, IF-IC	H, Mk
#4241 CHD3 Antibody	WB, IP	H, M, Mk
#12011 CHD4 (D4B7) Rabbit mAb	WB, IF-IC, ChIP ChIP-seq	H, M, R, Mk, (Hm), (B) (Pg), (GP), (Hr)
#11912 CHD4 (D8B12) Rabbit mAb	WB, IP	H, M, R, Mk, (B), (Pg) (GP), (Hr)
#14567 CoREST (D6I2U) Rabbit mAb	WB	H
#3418 CTCF (D31H2) XP® Rabbit mAb	WB, IP, IHC-P, IF-IC ChIP, ChIP-seq	H, M, R, Mk, (B), (Hr)
#2899 CTCF Antibody	WB, IP, IF-IC, ChIP	H, M, R, Mk
#40672 CXXC1 (D1R5R) Rabbit mAb	WB, IP, ChIP	H
#9725 Di-Methyl-Histone H3 (Lys4) (C64G9) Rabbit mAb	WB, IP, IHC-P, IF-IC, F ChIP, ChIP-seq	H, M, R, Mk
#4658 Di-Methyl-Histone H3 (Lys9) (D85B4) XP® Rabbit mAb	WB, IP, IF-IC, F, ChIP ChIP-seq	H, M, R, Mk, (Dm), (X), (Z), (B), (Pg), (Sc), (Ce)
#2901 Di-Methyl-Histone H3 (Lys36) (C75H12) Rabbit mAb	WB, IHC-P, IF-IC, F	H, M, R, Mk
#19115 DNAP1 (D4O2G) Rabbit mAb	WB	H, M, R, Mk
#5032 DNMT1 (D63A6) XP® Rabbit mAb	WB, IF-IC, F	H, M, R, Mk, (Hm), (B), (Dg), (GP), (Hr)
#3598 DNMT3A (D23G1) Rabbit mAb	WB, IP, IHC-P	H, M, R, Mk, B, (Hm), (Dg), (Pg), (Hr)
#2160 DNMT3A Antibody	WB, IP	H, M, R, Mk, (B)
#67259 DNMT3B (D7070) Rabbit mAb	WB, IP, IF-IC	H
#13451 DNMT3L (E1Y7Q) Rabbit mAb (Mouse Specific)	WB, IP	M
#93212 ESET (D4M8R) XP® Rabbit mAb	WB, IP, IHC-P, IF-IC ChIP, ChIP-seq	H, M, R, Mk
#74178 5-Formylcytosine (5-fC) (D5D4K) Rabbit mAb	IF-IC Dot Blot	All
#34589 HDAC1 (D5C6U) XP® Rabbit mAb	WB, IP, IF-IC, ChIP ChIP-seq	H, M, R, Mk
#5356 HDAC1 (10E2) Mouse mAb	WB, IP	H, M, R, Mk
#57156 HDAC2 (D6S5P) Rabbit mAb	WB, IP, IF-IC, ChIP ChIP-seq	H, M, R, Mk
#5113 HDAC2 (3F3) Mouse mAb	WB, IP, IF-IC	H, M, R, Mk
#2718 Histone H2A.Z Antibody	WB, IP, IF-IC	H, M, R, Mk, Z, (C) (X), (B)
#2619 HP1 gamma Antibody	WB, IP, IF-IC F	H, M, R, Mk
#2623 HP1a/b (C7F11) Rabbit mAb	WB, IP, IHC-P, IF-IC	H, M, R, Mk

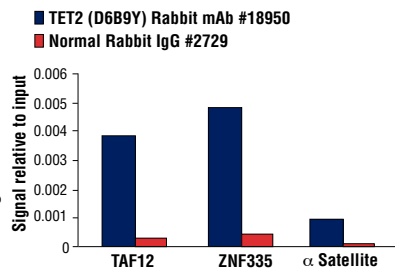
ANTIBODIES & KITS

	APPLICATIONS	REACTIVITY
#2616 HP1a Antibody	WB, IP, IHC-P, IF-IC F, ChIP	H, M, R, Mk (B)
#8676 HP1b (D2F2) XP® Rabbit mAb	WB, IP, IF-IC, ChIP ChIP-seq	H, M, R, Mk, (Hm), (B), (GP)
#51660 5-Hydroxymethylcytosine (5-hmC) (HMC31) Mouse mAb	IF-IC Dot Blot, MeDIP	All
#99169 MBD3 (D1B8F) Rabbit mAb	WB, ChIP	H, M, R, Mk
#3456 MeCP2 (D4F3) XP® Rabbit mAb	WB, IP IHC-P IF-IC F	H, M, R, Mk
#28692 5-Methylcytosine (5-mC) (D3S2Z) Rabbit mAb	IF-IC Dot Blot MeDIP	All
#5647 MTA1 (D40D1) XP® Rabbit mAb	WB, IHC-P	H, M, R, Mk
#13110 PCNA (D3H8P) XP® Rabbit mAb	WB, IP IHC-P IF-IC IF-IC F	H, M, R, Mk
#2586 PCNA (PC10) Mouse mAb	WB, IP IHC-P IF-IC F	H, M, R, Mk, B, Pg
#9067 RBAP46/RBAP48 (D4F8) Rabbit mAb	WB	H, M, R, Mk, (Hm), (C), (GP)
#6882 RBAP46 (V415) Antibody	WB, IP IF-IC	H, M, R, Mk, (Pg), (Hr)
#7691 SIN3A (D1B7) Rabbit mAb	WB, ChIP	H, M, R, Mk, (Pg), (Hr)
#8056 SIN3A (D9D6) Rabbit mAb	WB, IP IF-IC ChIP	H, Mk
#8729 SUV39H1 (D11B6) Rabbit mAb	WB, IP	H, M, R, Mk, (B)
#18950 TET2 (D6B9Y) Rabbit mAb	WB, IP ChIP	H
#36449 TET2 (D6C7K) Rabbit mAb (Mouse Specific)	WB, IP IF-IC F	M
#92529 TET2 (D9K3E) Rabbit mAb (Mouse Specific)	WB, ChIP ChIP-seq	M
#45010 TET2 Antibody	WB, IP	H, M, Mk
#9751 Tri-Methyl-Histone H3 (Lys4) (C42D8) Rabbit mAb	WB, IHC-P IF-IC F ChIP ChIP-seq	H, M, R, Mk, Dm, Sc, (X), (Z)
#13969 Tri-Methyl-Histone H3 (Lys9) (D4W1U) Rabbit mAb	WB, IP IF-IC F ChIP ChIP-seq	H, M, R, Mk, (B)
#4909 Tri-Methyl-Histone H3 (Lys36) (D5A7) XP® Rabbit mAb	WB, IHC-P IF-IC F ChIP ChIP-seq	H, M, R, Mk, (Hm), (C) (Dm), (X), (Z), (B)
#12387 UHRF1 (D6G8E) Rabbit mAb	WB, IP	H, M, R

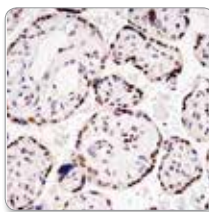
Related Products

- #97763** DNA Cytosine Modification Antibody Sampler Kit
- #76853** SimpleDIP™ Methylated DNA IP (MeDIP) Kit
- #95176** SimpleDIP™ Hydroxymethylated DNA IP (hMeDIP) Kit
- #56383** SimpleChIP® Plus Sonication Chromatin IP Kit
- #9005** SimpleChIP® Plus Enzymatic Chromatin IP Kit (Magnetic Beads)

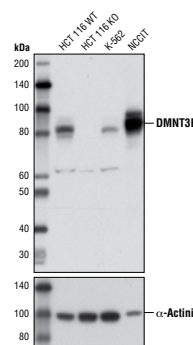
For Research Use Only. Not For Use in Diagnostic Procedures. 18-EPI-865-FLY1-EI



TET2 (D6B9Y) Rabbit mAb #18950: Chromatin immunoprecipitations were performed with cross-linked chromatin from 293T cells and either 18950 Rabbit mAb or Normal Rabbit IgG #2729 using SimpleChIP® Plus Enzymatic Chromatin IP Kit (Magnetic Beads) #9005. The enriched DNA was quantified by real-time PCR using SimpleChIP® Human ZNF335 Promoter Primers #25946, human TAF12 exon1 primers, and SimpleChIP® Human alpha Satellite Repeat Primers #4486. The amount of immunoprecipitated DNA in each sample is represented as signal relative to the total amount of input chromatin, which is equivalent to one.



DNMT3A (D23G1) Rabbit mAb #3598: Immunohistochemical analysis of paraffin-embedded human placenta using DNMT3A (D23G1) Rabbit mAb.



DNMT3B (D7070) Rabbit mAb #67259: Western blot analysis of extracts from HCT 116 DNMT3B wild-type (HCT 116 WT), HCT 116 DNMT3B knockout (HCT 116 KO), K-562, and NCCIT cells, using DNMT3B (D7070) Rabbit mAb (upper) or alpha-Actinin (D6F6) XP® Rabbit mAb #6487 (lower).

APPLICATIONS & REACTIVITY KEY: WB Western Blotting / IP Immunoprecipitation / IHC Immunohistochemistry / IF Immunofluorescence / F Flow Cytometry / ChIP Chromatin Immunoprecipitation / -IC Immunocytochemistry / -P Paraffin / -F Frozen / E-P Peptide ELISA / H human / M mouse / R rat / Hm hamster / Mk monkey / C chicken / Mi mink / Dm D. melanogaster / X Xenopus / Z zebrafish / B bovine / Dg dog / Pg pig / Sc S. cerevisiae / All all species expected / () 100% sequence homology

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For pathway key and background please visit:

www.cellsignal.com//dnamethylation

