

Writers - Proteins & Antibodies

IMPROVE YOUR EPIGENETIC RESEARCH LANDSCAPE

WRITERS – PROTEINS & ANTIBODIES



EPIGENETIC WRITERS

DNA Methyltransferases (DNMTs)
Histone Acetyltransferases (HATs)
Kinases
Poly(ADP-ribose) Polymerases(PARPs)
Protein Arginine Methyltransferases (PRMTs)
Protein Lysine Methyltransferases (PKMTs)
Ubiquitin E2 Conjugases and Ubiquitin E3 Ligases

Epigenetic Writers catalyze the addition of chemical groups like the acetyl, methyl, phosphate or ubiquitinyl groups to DNA or Histone to create “epigenetic marks”. Such marks are crucial for gene expression and silencing. **Many of the epigenetic writers present as targets in therapeutic areas of cancer, diabetes and autoimmune diseases.** BioVision offers proteins and antibodies for a wide range of such therapeutic and many more targets.

DNA METHYLTRANSFERASES (DNMTs)

These enzymes catalyze the addition of methyl groups onto the cytosine residue of CpG dinucleotides on DNA to induce transcriptional activation/repression. Methylation anomalies have been shown to play a direct causal role in tumorigenesis and genetic disease

BioVision's Key DNMT Recombinant Proteins

Protein	Cat. No.	Sizes
DNA Methyltransferase 3L (160-387 aa), Human recombinant	7665	10 µg
S-Adenosyl-L-methionine disulfate tosylate	2077	50 mg, 100 mg, 500 mg

BioVision's Key DNMT Antibodies

Antibody	Cat. No.	Sizes
Anti-5-Hydroxymethylcytosine Antibody	A1295	50 µg
Anti-5-Methylcytosine Antibody	A1294	50 µg
ASH2 polyclonal antibody	6836	50 µl
CBX2 polyclonal antibody	6840	50 µl
DMAP1 Antibody	3715	100 µg
DNA Methyltransferase 1 (Clone 60B1220.1) Antibody	6110	50 µg
DNA Methyltransferase 2 (Clone 102B1259.2) Antibody	6112	50 µg
DNA Methyltransferase 2 Antibody	6111	50 µg
DNA Methyltransferase 3a (Clone 64B1446) Antibody	6115	50 µg
DNA Methyltransferase 3a (Clone 64B814.1) Antibody	6113	50 µg
DNA Methyltransferase 3b (Clone 52A1018) Antibody	6114	50 µg

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Antibody	Cat. No.	Sizes
DNMT1 Antibody	3946	100 µg
DNMT2 Antibody	3488	100 µg
DNMT2 polyclonal antibody	6848	50 µl
DNMT3a Antibody	3227	100 µg
DNMT3A polyclonal antibody	6849	25 µg
DNMT3b Antibody	3275	100 µg
EHMT1 polyclonal antibody	6837	50 µl
EzH2 polyclonal antibody	6838	25 µg
MBD1 (Clone 100B272.1) Antibody	6103	50 µg
MBD1 polyclonal antibody	6828	25 µg
MBD2/3 (Clone 106B691) Antibody	6104	50 µg
MeCP2 (aa 11-25; aa 181-195) Antibody	6105	50 µg
MeCP2 Antibody	3199	100 µg
MeCP2 polyclonal antibody	6827	25 µg
S- Adenosylhomocysteine Antibody (Clone # 301-10)	6945	25 µl
S- Adenosylmethionine Antibody	6944	25 µl
S- Adenosylmethionine Antibody (Clone # 118-18)	6942	25 µl
S- Adenosylmethionine Antibody (Clone # 118-6)	6940	25 µl
S- Adenosylmethionine Antibody (Clone # 84-19)	6943	25 µl
S- Adenosylmethionine Antibody (Clone # 84-3)	6941	25 µl
Set9 polyclonal antibody	6841	25 µg
Setd1a polyclonal antibody	6842	50 µl
Setd1b polyclonal antibody	6843	50 µl
SETD8 polyclonal antibody	6844	25 µg
TAF1 polyclonal antibody	6845	50 µl
WDR5 polyclonal antibody	6846	50 µl

HISTONE ACETYLTRANSFERASES (HATs)

These enzymes catalyze the acetylation of lysine residues on histone proteins. In general, this acetylation leads to an increase in gene expression. HATs can also acetylate non-histone proteins, such as transcription factors and nuclear receptors to facilitate gene expression. Developmental aberrations in mice and certain human cancers are associated with HAT mutations.

BioVision's Key HAT Recombinant Proteins

Protein	Cat. No.	Sizes
HeLa Nuclear Extract	1641	1 mg, 100 µg
PCAF bromodomain (352-658 aa), human recombinant	1137	100 µg
PCAF bromodomain (714-831 aa), human recombinant	7657	100 20 µg, 100 µg
PCAF, mouse recombinant	7556	10 µg

BioVision's Key HAT Antibodies

Antibody	Cat. No.	Sizes
Acetyl Lysine (Biotin) Antibody	6125	50 µg
Acetyl-Lysine Monoclonal Antibody	A1029	100 µg
HAT-1 Antibody	3689	100 µg
HAT-2 Antibody	3692	100 µg
HAT-3 Antibody	3707	100 µg
KAT8 Antibody	6149	100 µg
NCOA1 Antibody	6153	100 µg

Antibody	Cat. No.	Sizes
RBBP4 Antibody	6154	100 µg
TIP60 Antibody	6126	50 µg
TIP60 Antibody	6634	50 µg

KINASES

Kinases play an important role in epigenetic regulation through PARP activation.

BioVision's Key Kinase Recombinant Proteins

Protein	Cat. No.	Sizes
Active Pim 1	7742	5 µg
Active PIM2	7730	5 µg
Active PKCepsilon	7753	5 µg

BioVision's Key Kinase Antibodies

Antibody	Cat. No.	Sizes
ATM Antibody	3813	100 µg
ATR Antibody	3767	100 µg
PIM1 Antibody	3787R	100 µg
PKC Antibody	3450	100 µg

POLY (ADP-RIBOSE) POLYMERASES (PARPs)

These enzymes mediate the Poly ADP-ribosylation of proteins. They are mainly involved in DNA repair and cell death.

BioVision's Key PARP Recombinant Proteins

Protein	Cat. No.	Sizes
PARP-1, human recombinant	4992	50 µg

BioVision's Key PARP Antibodies

Antibody	Cat. No.	Sizes
PARP (Cleaved) Antibody	3140	100 µg
PARP (Cleaved) Antibody	3141	100 µg

BioVision's Key PARP Antibodies

Antibody	Cat. No.	Sizes
PARP (Cleaved) Antibody	3142	100 µg
PARP Antibody	3002	100 µg
PARP Antibody (Clone 10H)	3000	100 µg
PARP Antibody (Clone 7A10)	3023	100 µg

PROTEIN ARGININE METHYLTRANSFERASE (PRMTs)

These enzymes mediate the generation of monomethylated or dimethylated arginine residues. The symmetry of the methyl groups added to arginine residues determines the biological effect of the epigenetic modification. Asymmetric dimethylation is linked to gene activation while symmetric dimethylation is associated with gene repression.

BioVision's Key PRMT Recombinant Proteins

Protein	Cat. No.	Sizes
PRMT1, human recombinant (Active)	4865	10 µg, 50 µg, 1mg
PRMT1, mouse recombinant (Active)	4868	10 µg, 1mg

BioVision's Key PRMT Antibodies

Antibody	Cat. No.	Sizes
CARM1 Antibody	3734R	100 µg
PRMT1 Antibody	3792	100 µg
PRMT-5 Antibody	3935	100 µg
PRMT6 Antibody	3086	100 µg
PRMT7 Antibody	3059	100 µg

PROTEIN LYSINE METHYLTRANSFERASE (PKMTs)

These enzymes catalyze the transfer of a methyl group from the co-factor S-adenosyl methionine (SAM) onto a lysine side chain on the exposed histone tail. Proteins differentially interact with these methylated histones based on the number of methyl residues added.

BioVision's Key PKMT Recombinant Proteins

Protein	Cat. No.	Sizes
Ash2L (96-628 aa), Human recombinant	7664	25 µg
DOT1L (2- 416 aa), Human recombinant	7666	25 µg
EED (1- 441aa), Human recombinant	7667	25 µg
Nicotinamide N-Methyltransferase, Human Recombinant (hNNMT)	7261	20 µg, 100 µg, 1mg
RIZ1 (2-200 aa) (GST-tagged), Human recombinant	7672	50 µg

BioVision's Key PKMT Antibodies

Antibody	Cat. No.	Sizes
EHMT2 Antibody	6152	100 µg
EZH1 Antibody	6123	50 µg
EZH2 Antibody	3242	100 µg
Methyl Lysine (Biotin) Antibody	6124	50 µg
NNMT Antibody	6673	30 µl, 100 µl
SETD3 Antibody	3197	100 µg
SETDB1 Antibody	6155	100 µg
Swi6 Antibody	6285	100 µg

UBIQUITIN E2 CONJUGASES and UBIQUITIN E3 LIGASES

Lysine residues on histone proteins H2A and H2B can undergo monoubiquitination through the concerted actions of E2 ubiquitin conjugases and E3 ubiquitin ligases which forms a very critical epigenetic mark. Depending on the location of ubiquitination, transcription can either be activated or repressed.

Protein	Cat. No.	Sizes
Human recombinant UBE2D2 (UbcH5b)	6435	3 nmol
Human recombinant UBE2D3	6430	3 nmol
Human recombinant UBE2E2 (UbcH8)	6438	3 nmol
Human recombinant UBE2E3 (UbcH9)	6439	3 nmol
Human recombinant UBE2H (UbcH2)	6440	3 nmol
Human recombinant UBE2H (UbcH2), HIS6SUMO	6441	3 nmol
Human recombinant UBE2K	6432	3 nmol

Protein	Cat. No.	Sizes
Human recombinant UBE2L3	6431	3 nmol
Human recombinant UBE2R1 (CDC34)	6436	3 nmol
Human recombinant UBE2R2 (Ubc3B)	6437	3 nmol
Human recombinant Ubiquitin Activating Enzyme E1	6429	50 µg
UbcH1, human recombinant (GST-tag)	4846	10 µg, 100 µg
UbcH2, human recombinant (His-tag)	4848	100 µg
UbcH3, human recombinant (His-tag)	4849	100 µg
UbcH5a, human recombinant (His-tag)	4851	10 µg
UbcH5b, human recombinant (His-tag)	4852	10 µg
UbcH5c, human recombinant (His-tag)	4854	100 µg
Yeast recombinant Ubc13 (UBE2N)	6433	3 nmol

BioVision's Key Epigenetic Ubiquitination related Antibodies

Antibody	Cat. No.	Sizes
USP7 Antibody	3747	100 µg

RELATED PRODUCTS

Category	Product Type
Histones	Core Histones, Linker Histones
Reader Domains	Bromodomains, Tudor Domains, MBT Domains
Eraser Enzymes	HDACs, HDMs, HIF, PTPs, SIRTs, and more

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