

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	Catalog #	Sizes
DNA Methyltransferase 3L (160-387 aa), Human recombinant	7665-10	10 µg

BioVision’s Key DNMT Antibodies

Antibody	Catalog #	Sizes
DMAP1 Antibody	3715-100	100 µg
DNA Methyltransferase 1 (Clone 60B1220.1) Antibody	6110-50	50 µg
DNA Methyltransferase 2 (Clone 102B1259.2) Antibody	6112-50	50 µg
DNA Methyltransferase 2 Antibody	6111-50	50 µg
DNA Methyltransferase 3a (Clone 64B1446) Antibody	6115-50	50 µg
DNA Methyltransferase 3a (Clone 64B814.1) Antibody	6113-50	50 µg
DNA Methyltransferase 3b (Clone 52A1018) Antibody	6114-50	50 µg
DNMT1 Antibody	3946-100	100 µg
DNMT2 Antibody	3488-100	100 µg
DNMT3a Antibody	3227-100	100 µg
DNMT3b Antibody	3275-100	100 µg
MBD1 (Clone 100B272.1) Antibody	6103-50	50 µg
MBD2/3 (Clone 106B691) Antibody	6104-50	50 µg
MeCP2 (aa 11-25; aa 181-195) Antibody	6105-50	50 µg
MeCP2 Antibody	3199-100	100 µg

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	Catalog #	Sizes
PCAF bromodomain (352-658 aa), human recombinant	1137-100	100 µg
PCAF bromodomain (714-831 aa), human recombinant	7657-20, 100	20 µg, 100 µg
PCAF, mouse recombinant	7556-10	10 µg

BioVision's Key HAT Antibodies

Antibody	Catalog #	Sizes
Acetyl Lysine (Biotin) Antibody	6125-50	50 µg
HAT-1 Antibody	3689-100	100 µg
HAT-2 Antibody	3692-100	100 µg
HAT-3 Antibody	3707-100	100 µg
KAT8 Antibody	6149-100	100 µg
NCOA1 Antibody	6153-100	100 µg
RBBP4 Antibody	6154-100	100 µg
TIP60 Antibody	6126-50	50 µg
TIP60 Antibody	6634-50	50 µg

KINASES

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

BioVision's Key Kinase Recombinant Proteins

Protein	Catalog #	Sizes
Active Pim 1	7742-5	5 µg
Active PIM2	7730-5	5 µg
Active PKCepsilon	7753-5	5 µg

BioVision's Key Kinase Antibodies

Antibody	Catalog #	Sizes
ATM Antibody	3813-100	100 µg
ATR Antibody	3767-100	100 µg
PIM1 Antibody	3787R-100	100 µg
PKC Antibody	3450-100	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	Catalog #	Sizes
PARP-1, human recombinant	4992-50	50 µg

BioVision's Key PARP Antibodies

Antibody	Catalog #	Sizes
PARP (Cleaved) Antibody	3140-100	100 µg
PARP (Cleaved) Antibody	3141-100	100 µg

BioVision's Key PARP Antibodies

Antibody	Catalog #	Sizes
PARP (Cleaved) Antibody	3142-100	100 µg
PARP Antibody	3002-100	100 µg
PARP Antibody (Clone 10H)	3000-100	100 µg
PARP Antibody (Clone 7A10)	3023-100	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	Catalog #	Sizes
PRMT1, human recombinant (Active)	4865-10, 50, 1000	10 µg, 50 µg, 1mg
PRMT1, mouse recombinant (Active)	4868-10, 1000	10 µg, 1mg

BioVision's Key PRMT Antibodies

Antibody	Catalog #	Sizes
CARM1 Antibody	3734R-100	100 µg
PRMT1 Antibody	3792-100	100 µg
PRMT-5 Antibody	3935-100	100 µg
PRMT6 Antibody	3086-100	100 µg
PRMT7 Antibody	3059-100	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	Catalog #	Sizes
Ash2L (96-628 aa), Human recombinant	7664-25	25 µg
DOT1L (2- 416 aa), Human recombinant	7666-25	25 µg
EED (1- 441aa), Human recombinant	7667-25	25 µg
Nicotinamide N-Methyltransferase, Human Recombinant (hNNMT)	7261-20, 100, 1000	20 µg, 100 µg, 1mg
RIZ1 (2-200 aa) (GST-tagged), Human recombinant	7672-50	50 µg

BioVision's Key PKMT Antibodies

Antibody	Catalog #	Sizes
EHMT2 Antibody	6152-100	100 µg
EZH1 Antibody	6123-50	50 µg
EZH2 Antibody	3242-100	100 µg
Methyl Lysine (Biotin) Antibody	6124-50	50 µg
SETD3 Antibody	3197-100	100 µg
SETDB1 Antibody	6155-100	100 µg
Swi6 Antibody	6285-100	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.

BioVision's Key Epigenetic Ubiquitination related Recombinant Proteins

Protein	Catalog #	Sizes
Human recombinant UBE2D2 (UbcH5b)	6435-3	3 nmol
Human recombinant UBE2D3	6430-3	3 nmol
Human recombinant UBE2E2 (UbcH8)	6438-3	3 nmol
Human recombinant UBE2E3 (UbcH9)	6439-3	3 nmol
Human recombinant UBE2H (UbcH2)	6440-3	3 nmol
Human recombinant UBE2H (UbcH2), HIS6SUMO	6441-3	3 nmol
Human recombinant UBE2K	6432-3	3 nmol
Human recombinant UBE2L3	6431-3	3 nmol
Human recombinant UBE2R1 (CDC34)	6436-3	3 nmol
Human recombinant UBE2R2 (Ubc3B)	6437-3	3 nmol
Human recombinant Ubiquitin Activating Enzyme E1	6429-50	50 µg
UbcH1, human recombinant (GST-tag)	4846-10, 100	10 µg, 100 µg
UbcH2, human recombinant (His-tag)	4848-100	100 µg
UbcH3, human recombinant (His-tag)	4849-100	100 µg
UbcH5a, human recombinant (His-tag)	4851-10	10 µg
UbcH5b, human recombinant (His-tag)	4852-10	10 µg
UbcH5c, human recombinant (His-tag)	4854-100	100 µg
Yeast recombinant Ubc13 (UBE2N)	6433-3	3 nmol

BioVision's Key Epigenetic Ubiquitination related Antibodies

Antibody	Catalog #	Sizes
USP7 Antibody	3747-100	100 µg

RELATED PRODUCTS

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