

IMPROVE YOUR EPIGENETIC RESEARCH LANDSCAPE

ERASERS – PROTEINS & ANTIBODIES



EPIGENETIC ERASERS

Histone Deacetylases (HDACs)
Histone Demethylases (HDMs)
Hypoxia-Inducible Factors (HIFs)
Protein Tyrosine Phosphatases (PTPs)
Sirtuins (SIRTs)
Ubiquitin Specific Proteases

Epigenetic erasers are key players in the removal of “epigenetic signatures” or post translational modifications on histones. These epigenetic reprogramming events are required during multiple developmental stages. BioVision is proud to provide a multitude of epigenetic erasers, some of which are **potential targets for cancer therapeutics**.

HISTONE DEACETYLASES (HDACs)

The balance of histone acetylation & deacetylation plays a critical role in transcription regulation. HDAC activity is associated with the gene silencing part of this regulation. Alteration in expression and mutation in HDAC structure has been associated with tumour development, making HDACs a cancer therapeutic target.

BioVision’s Key HDAC Recombinant Proteins

Protein	Catalog #	Sizes
HDAC3, human recombinant	7613-250, 1000	250 units, 1000 units
HDAC6, human recombinant	7534-10	10 µg
HDAC8, human recombinant	7618-20, 100, 1000	20 µg, 100 µg, 1 mg

BioVision’s Key HDAC Antibodies

Antibody	Catalog #	Sizes
HDAC1 Antibody	3601-100	100 µg
HDAC2 Antibody	3602-100	100 µg
HDAC3 Antibody	3603-100	100 µg
HDAC4 Antibody	3604-100	100 µg
HDAC4 Antibody	3604A-100	100 µg
HDAC5 Antibody	3605-100	100 µg
HDAC6 Antibody	3606-100	100 µg
HDAC7 Antibody	3607-100	100 µg
HDAC8 Antibody	3608-100	100 µg
HDAC9 Antibody	3609-100	100 µg
HDAC10 Antibody	3610-100	100 µg
HDAC11 Antibody	3611P-100	100 µg
HDAC Family Antibody Set	K333-11-30	11 x 30 µg

HISTONE DEMETHYLASES (HDMs)

Histone demethylases take part in large multiprotein complexes synergizing with histone deacetylases, histone methyltransferases, and nuclear receptors to control developmental and transcriptional programs. Histone Lysine demethylases are fast emerging as targets for anti-cancer therapy.

BioVision's Key HDM Recombinant Proteins

Protein	Catalog #	Sizes
JMJD2A Tudor Domains (888-1023 aa) (GST-tagged), Human recombinant	7678-20, 50	20 µg, 50 µg
JMJD6 (2-403 aa) (GST-tagged), Human recombinant	7679-20, 50	20 µg, 50 µg

BioVision's Key HDM Antibodies

Antibody	Catalog #	Sizes
JMJD1A Antibody	3273-100	100 µg
LSD1 (aa 400-450) Antibody	6116-50	50 µg
LSD1 (aa 450-500) Antibody	6117-50	50 µg
LSD1 (aa 800-850) Antibody	6118-50	50 µg

PROTEIN TYROSINE PHOSPHATASES (PTPs)

These play a role in dephosphorylating histone proteins and play an important role in DNA damage repair pathways and microtubule organization.

BioVision's Key PTP Recombinant Proteins

Protein	Catalog #	Sizes
Human Recombinant DUSP3	6371-100	100 µg
Human Recombinant PP2C alpha	6303-100	100 µg
Human Recombinant PPM1G	6369-50	50 µg
Human Recombinant PPP1CA	6370-10	10 µg
Human Recombinant PTP1B	6301-100	100 µg
Human Recombinant SHP-1	6302-100	100 µg

BioVision's Key PTP Antibodies

Antibody	Catalog #	Sizes
PTP1B Antibody	3171-100	100 µg
PTP1B Antibody	3174-100	100 µg
PTP1B Antibody (Clone 107AT531)	3122-100	100 µg
PTPRD Antibody (NT)	5313-100	100 µg

SIRTIINS (SIRT5s)

There are seven human Sirtuins, also known as class III HDACs, which have been designated SIRT1 to SIRT7. Each is involved in various post-translational modifications by utilizing NAD dependent deacetylases and APD-ribosyltransferase activities. They have been implicated in influencing a wide range of cellular processes like aging, transcription, apoptosis, inflammation and stress resistance.

BioVision's Key SIRT Recombinant Proteins

Protein	Catalog #	Sizes
SIRT1 (193-747 aa) (GST-tagged), Human recombinant	7264-25, 50	25 units, 50 units
SIRT4 (GST-tagged), Human recombinant	7673-20, 50	25 µg, 50 µg
SIRT5 (GST-tagged), Human recombinant	7674-20, 50	20 µg, 50 µg
SIRT7 (2-400 aa) (His-tagged), Human recombinant	7675-20, 50	20 µg, 50 µg
SIRT6, human recombinant	7578-10	10 µg

BioVision's Key SIRT Antibodies

Antibody	Catalog #	Sizes
SIRT1 Antibody	6137-100	100 µg
SIRT2 Antibody	6138-100	100 µg
SIRT2 Antibody	6632-100	100 µg
SIRT3 Antibody	3223-100	100 µg
SIRT4 Antibody	3224-100	100 µg
SIRT5 Antibody	3225-100	100 µg
SIRT7 Antibody	6107-50	50 µg
SIRT7 Antibody	3099-100	100 µg

UBIQUITIN-SPECIFIC PROTEASES (DUBs)

DUBs cleave the ubiquitin from proteins and other molecules. Ubiquitin is attached to proteins regulate their degradation, co-ordinate their cellular location and modulate protein-protein interaction. DUBs reverse these effects. They can be classified into 2 types - cysteine proteases and metalloproteases. DUBs play an important role in physiological processes involved in diseases like cancer and neurological disorders.

BioVision's Key DUB Recombinant Proteins

Protein	Catalog #	Sizes
Human Recombinant DUSP3	6371-100	100 µg
Isopeptidase T (long form), human recombinant	4862-25	25 µg
Isopeptidase T (short form), human recombinant	4861-25	20 µg

BioVision's Key DUB Antibodies

Antibody	Catalog #	Sizes
UCHL1 Polyclonal Antibody	6130-50	50 µg
UCHL3 Polyclonal Antibody	6128-50	50 µg
UCHL5 Polyclonal Antibody	6129-50	50 µg
UHRF1 Polyclonal Antibody	6144-100	100 µg
UHRF2 Polyclonal Antibody	6145-100	100 µg
USP1 Polyclonal Antibody	6140-100	100 µg
USP2 Polyclonal Antibody	6141-100	100 µg
USP3 Polyclonal Antibody	6142-100	100 µg
USP4 Polyclonal Antibody	6131-50	50 µg
USP5 Polyclonal Antibody	6132-50	50 µg
USP7 Antibody	3747-100	100 µg
USP8 Polyclonal Antibody	6133-50	50 µg
USP14 Polyclonal Antibody	6134-50	50 µg
USP15 Polyclonal Antibody	6135-50	50 µg
USP25 Polyclonal Antibody	6143-100	100 µg
USP34 Core Polyclonal Antibody	6136-50	50 µg

RELATED PRODUCTS

Category	Product type
Histones	Core Histones, Linker Histones
Reader Domains	Bromodomains, Tudor Domains, MBT Domains
Writer Enzymes	DNMTs, HATs, PARPs, PRMTs, PKMTs, and more