Erasers - Proteins & Antibodies

EPIDGENETIC 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 HDACs Recombinant Proteins

Protein	Cat. No	Sizes
HDAC3, human recombinant	7613	250 units, 1000 units
HDAC6, human recombinant	7534	10 µg
HDAC8, human recombinant	7618	20 µg, 100 µg, 1 mg

BioVision's Key HDACs Antibodies

Antibody	Cat. No.	Sizes
HDAC Family Antibody Set	K333	11 x 30 µg
HDAC1 Antibody	3601	100 µg
HDAC10 Antibody	3610	100 µg
HDAC11 Antibody	3611P	100 µg
HDAC2 Antibody	3602	100 µg
HDAC3 Antibody	6603	30 µg, 100 µg
HDAC3 Antibody	3603	100 µg
HDAC4 Antibody	3604	100 µg
HDAC4 Antibody	3604A	100 µg
HDAC5 Antibody	3605	100 µg
HDAC6 Antibody	3606	100 µg
HDAC7 Antibody	3607	100 µg
HDAC8 Antibody	3608	100 µg
HDAC9 Antibody	3609	100 µg

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HISTONE DEMETHYLASES (HDMs)

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 HDMs Recombinant Proteins

Protein	Cat. No.	Sizes
JMJD2A Tudor Domains (888-1023 aa) (GST-tagged), Human recombinant	7678	20 µg, 50 µg
JMJD6 (2-403 aa) (GST-tagged), Human recombinant	7679	20 µg, 50 µg

BioVision's Key HDMs Antibodies

Antibody	Cat. No.	Sizes
HDAC Family Antibody Set	K333	11 x 30 µg
Jarid1b polyclonal antibody	6854	50 µl
Jarid1c polyclonal antibody	6855	50 µl
JARID2 polyclonal antibody	6856	50 µl
JMJD1A Antibody	3273	100 µg
JMJD1A Blocking Peptide	3273BP	50 µg
JMJD2a polyclonal antibody	6851	25 µg
JMJD2b polyclonal antibody	6852	50 µl
JMJD2c polyclonal antibody	6853	50 µl
KDM1B polyclonal antibody	6847	50 µl
LSD1 (aa 400-450) Antibody	6116	50 µg
LSD1 (aa 450-500) Antibody	6117	50 µg
LSD1 (aa 800-850) Antibody	6118	50 µg
PHF8 polyclonal antibody	6850	25 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 PTPs Recombinant Proteins

Protein	Cat. No.	Sizes
Human Recombinant DUSP3	6371	100 µg
Human Recombinant PP2C alpha	6303	100 µg
Human Recombinant PPM1G	6369	50 µg
Human Recombinant PPP1CA	6370	10 µg
Human Recombinant PTP1B	6301	100 µg
Human Recombinant SHP-1	6302	100 µg

BioVision's Key PTPs Antibodies

Antibody	Cat. No.	Sizes
PTP1B Antibody	3171	100 µg
PTP1B Antibody	3174	100 µg
PTP1B Antibody (Clone 107AT531)	3122	100 µg

SIRTUINS (SIRTs)

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 SIRTs Recombinant Proteins

Protein	Cat. No.	Sizes
SIRT1 (193-747 aa) (GST-tagged), Human recombinant	7264	25 units, 50 units
SIRT4 (GST-tagged), Human recombinant	7673	25 µg, 50 µg
SIRT5 (GST-tagged), Human recombinant	7674	20 µg, 50 µg
SIRT7 (2-400 aa) (His-tagged), Human recombinant	7675	20 µg, 50 µg
SIRT6, human recombinant	7578	10 µg
Human Recombinant SHP-1	6302	100 µg

BioVision's Key SIRTs Antibodies

Antibody	Cat. No.	Sizes
SIRT1 Antibody	6137	100 µg
SIRT2 Antibody	6138	100 µg
SIRT2 Antibody	6632	100 µg
SIRT3 Antibody	3223	100 µg
SIRT4 Antibody	3224	100 µg
SIRT5 Antibody	3225	100 µg
SIRT6 Antibody	6692	30 µg, 100 µg
SIRT7 Antibody	6107	50 µg
SIRT7 Antibody	3099	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.

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BioVision's Key DUBs Recombinant Proteins

Protein	Cat. No.	Sizes
Active SIRT2, human recombinant	7698	10 µg , 50 µg, 1 mg
Active SIRT6 (GST-tagged), human recombinant	7697	20 µg, 100 µg, 1 mg
Active SIRT6 (His-tagged), human recombinant	7699	20 µg, 100 µg, 1 mg
Active SIRT7, human recombinant	7846	10 µg, 50 µg
SIRT1 (193-747 aa) (GST-tagged), Human recombinant	7264	25 units, 50 units
SIRT4 (GST-tagged), Human recombinant	7673	25 µg, 50 µg
SIRT5 (GST-tagged), Human recombinant	7674	20 µg, 50 µg
SIRT6, human recombinant	7578	10 µg
SIRT7 (2-400 aa) (His-tagged), Human recombinant	7675	20 µg, 50 µg

BioVision's Key DUBs Antibodies

Antibody	Cat. No.	Sizes
UCHL1 Polyclonal Antibody	6130	50 µg
UCHL3 Polyclonal Antibody	6128	50 µg
UCHL5 Polyclonal Antibody	6129	50 µg
UHRF1 Polyclonal Antibody	6144	100 µg
UHRF2 Polyclonal Antibody	6145	100 µg
USP1 Polyclonal Antibody	6140	100 µg
USP14 Polyclonal Antibody	6134	50 µg
USP15 Polyclonal Antibody	6135	50 µg
USP2 Polyclonal Antibody	6141	100 µg
USP25 Polyclonal Antibody	6143	100 µg
USP3 Polyclonal Antibody	6142	100 µg
USP34 Core Polyclonal Antibody	6136	50 µg
USP4 Polyclonal Antibody	6131	50 µg
USP5 Polyclonal Antibody	6132	50 µg
USP7 Antibody	3747	100 µg
USP8 Polyclonal Antibody	6133	50 µg

REALTED 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