



# Epigenetics

## Assays, Proteins, Antibodies

Histones | DNA | Methylation | Acetylation | Bromodomains | Nucleosomes



### Histone Methylation

Histone methyltransferases and histone demethylases are critical for transcriptional regulation in both normal and diseased tissues and are important drug discovery targets.

#### Histone Methyltransferases

Our histone methylation product range includes substrates, enzymes and assays for PRMTs, EZHs, NSDs, SETDs, and SUVs.

- Assay kits
- Alphascreen homogenous assays
- Histone methyltransferases
- Substrates

#### Histone Demethylases

Our histone demethylation product range includes substrates, enzymes and assays for FBXL, JARID, JMJD, LSD1, and JHDM1.

- Assay kits
- Alphascreen homogenous assays
- Histone demethylases
- Substrates



### DNA Methylation

DNA methylation modifies chromatin structure and stably alters the gene expression. It is required for proper gene regulation during development and plays a crucial role in cancer onset and progress.

Our DNA methylation product range includes enzymes, assays and cofactors.

- Assay kits
- DNMT enzymes
- S-Adenosylmethionine and antibodies



**Histone Acetylation**

Histone acetylation and deacetylation are essential parts of gene regulation. Acetylated histones, that organize chromatin into nucleosomes and ultimately higher order structures, are a type of epigenetic marker within chromatin.

**Histone Deacetylation**

Our histone deacetylation product range includes substrates, enzymes and assays for HDAC and SIRT proteins.

- Assay kits
- Histone deacetylases
- Substrates

**Histone Acetyltransferases**

Our histone acetylation product range includes substrates, enzymes and assays for ATAT1, p300 and GCN5.

- Assay kits
- Histone acetyltransferases
- Substrates

**Bromodomains**

Bromodomains recognize acetylated lysines and are important in cancer drug discovery, inflammatory diseases, cardiovascular diseases and rheumatoid arthritis.

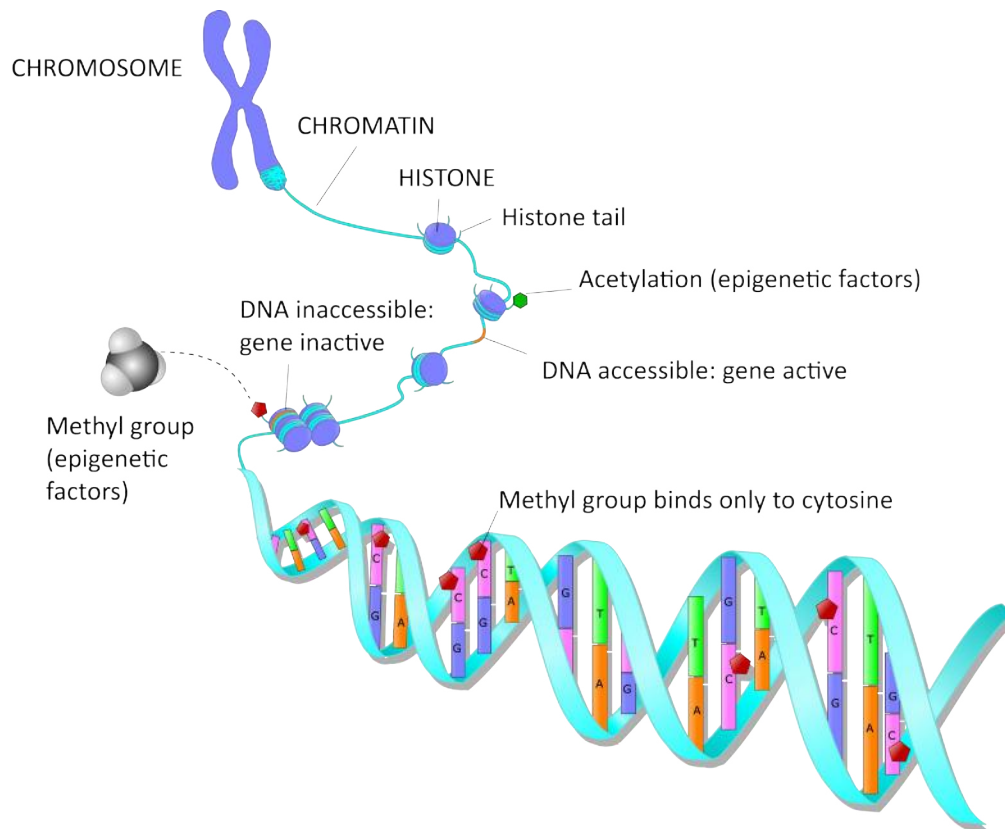
Our bromodomain product range includes screening & profiling kits, ligands and BRD proteins.

- Assay kits
- BRD proteins
- Ligands

**Nucleosomes & Histones**

AMSBIO offers both recombinant and purified nucleosomes, as well as full length versions of all the histone proteins and also biotin labelled histones.


- Native nucleosomes
- Recombinant nucleosomes
- Recombinant histones





Find out more: [www.amsbio.com/drug-discovery-assay-kits-proteins.aspx](http://www.amsbio.com/drug-discovery-assay-kits-proteins.aspx)

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