

## IMPROVE YOUR EPIGENETIC RESEARCH LANDSCAPE

READER DOMAINS – PROTEINS & ANTIBODIES



### EPIGENETIC READERS

Bromodomains (BRD)

Tudor Domains (TDRD)

MBD Domains

**Epigenetic reader domains** operate at the interface of translating histone marks. They recognize the histone code written in acetyl and methyl marks and work in concert with the erasers and writer enzymes to control transcriptional activity. BioVision's reader domains line of products encompasses key reader categories including **Bromodomains, Tudor domains and MBD domains.**

### BROMODOMAINS (BRDs)

The bromodomain (BRD) is the sole protein domain known to recognize acetyl-lysine residues on proteins. The best known members of this family belong to the BET subfamily of proteins. Dysfunction of BRD proteins has been linked to diseases such as human squamous cell carcinoma and other forms of cancer. Inhibitors of BET have shown therapeutic effects in multiple models of hematological malignancies as well as solid tumors.

### BioVision's Key BRD Recombinant Proteins

Protein	Catalog #	Sizes
BAZ2B bromodomain (2064-2168 aa) (GST-tagged), Human recombinant	7654-20, 100	20 µg, 100 µg
BPTF bromodomain (2796-2907 aa) (GST-tagged), Human recombinant	7662-20, 100	20 µg, 100 µg
BRD1 bromodomain (556-680 aa) (GST-tagged), human recombinant	7645-20, 100	20 µg, 100 µg
BRD1 bromodomain (556-688 aa) (His-Tag), human recombinant	7405-100	100 µg
BRD2 bromodomain (1-455 aa) (His-Tag), human recombinant	7406-100	100 µg
BRD2 bromodomain 1 (65-187 aa) (GST-tagged), human recombinant	7646-20, 100	20 µg, 100 µg
BRD2 bromodomain 1 and 2 (65-459 aa) (GST-tagged), human recombinant	7647-20, 100	20 µg, 100 µg
BRD2 bromodomain 2 (339-459 aa) (GST-tagged), human recombinant	7648-20, 100	20 µg, 100 µg
BRD3 bromodomain (1-416 aa) (His-Tag), human recombinant	7407-100	100 µg
BRD3 bromodomain 1 (24-144 aa) (GST-tagged), Human recombinant	7652-20, 100	20 µg, 100 µg
BRD3-Bromodomain1 (29-145 aa) (His-Tagged) human recombinant	7256-20, 100, 1000	20 µg, 100 µg, 1 mg
BRD3-Bromodomain2 (306-417 aa) (His-Tagged) human recombinant	7257-20, 100, 1000	20 µg, 100 µg, 1 mg
BRD4 bromodomains 1 and 2 (49-460 aa) (GST-tagged), Human recombinant	7651-20, 100	20 µg, 100 µg
Bromodomain-containing Protein 4 (BrD4, domain 342-460 aa), human recombinant	7644-20, 100, 1000	20 µg, 100 µg, 1 mg
Bromodomain-containing Protein 4 (BrD4, domain 49-170aa), human recombinant	7643-20, 100, 1000	20 µg, 100 µg, 1 mg
BRD9 bromodomain (21-137 aa) (GST-tagged), human recombinant	7649-20, 100	20 µg, 100 µg
BRG1 bromodomain (1448-1575 aa) (GST-tagged), human recombinant	7650-20, 100	20 µg, 100 µg
BRM bromodomain (1367-1511 aa) (GST-tagged), Human recombinant	7655-20, 100	20 µg, 100 µg
Bromodomain Testis-specific Protein (BrdT, domain 257-382 aa), human recombinant	7642-20, 100, 1000	20 µg, 100 µg, 1 mg

## BioVision's Key BRD Recombinant Proteins

Protein	Catalog #	Sizes
Bromodomain Testis-specific Protein (BrdT), human recombinant	7641-20, 100, 1000	20 µg, 100 µg, 1 mg
BRPF3 bromodomain (576-701 aa) (GST-tagged), Human recombinant	7663-20, 100	20 µg, 100 µg
CECR2 bromodomain (424-538 aa) (GST-tagged), Human recombinant	7661-20, 100	20 µg, 100 µg
CREB Binding Protein bromodomain (1081-1197 aa) (GST-tagged), Human recombinant	7659-20, 100	20 µg, 100 µg
PCAF bromodomain (714-831 aa), human recombinant	7657-20, 100	20 µg, 100 µg
PCAF, mouse recombinant	7556-10	10 µg
Polybromo-1D bromodomain 1 (23-156 aa) (GST-tagged), Human recombinant	7656-20, 100	20 µg, 100 µg
TAF1 bromodomain 1 (1371-1496 aa) (GST-tagged), Human recombinant	7660-20, 100	20 µg, 100 µg
TRIM24 bromodomain (896-1014 aa) (GST-tagged), Human recombinant	7658-20, 100	20 µg, 100 µg
WRD9 bromodomain 2 (1310-1426 aa) (GST-tagged), Human recombinant	7653-20, 100	20 µg, 100 µg

## BioVision's Key BRD Antibodies

Antibody	Catalog #	Sizes
BRD2 Antibody	6281-100	100 µg
BRD3 Antibody	6282-100	100 µg
BRD3-BD1 Antibody	6665-100	100 µg
BRD3-BD2 Antibody	6662-100	100 µg
BRD4 Antibody	6644-100	100 µg
BRD4 Antibody	6283-100	100 µg
BRD4 Antibody	6639-100	100 µg
BRD8 Antibody	3738-100	100 µg
BRD8 Antibody	3506-100	100 µg
BRDT Antibody	6642-100	100 µg
BRDT Antibody	6643-100	100 µg
EGLN1 Antibody	6151-100	100 µg
SMARCA4 Antibody	6156-100	100 µg

## TUDOR DOMAINS (TDRDs)

Tudor domain proteins function as molecular adaptors, binding methylated arginine or lysine residues on their substrates to promote physical interactions and the assembly of macromolecular complexes. Along with chromatin modifications, these proteins are also involved in DNA damage responses.

## BioVision's Key TDRD Recombinant Proteins

Protein	Catalog #	Sizes
JMJD2A Tudor Domains (888-1023 aa) (GST-tagged), Human recombinant	7678-20, 50	20 µg, 50 µg
SMN Tudor Domain (1472-1613 aa) (GST-tagged), Human recombinant	7676-20, 50	20 µg, 50 µg
TDRD12-BD2 (908-999 aa) (His-Tagged), human recombinant	7254-20, 100, 1000	20 µg, 100 µg, 1 mg
Tudor domain-containing protein 4 (hTDRD4, domain 30-139aa), human recombinant	7251-20, 100, 1000	20 µg, 100 µg, 1 mg

## BioVision's Key TDRD Antibodies

Antibody	Catalog #	Sizes
JMJD2A Antibody	6108-50	50 µg
JMJD6 Antibody	6109-50	50 µg
TDRD12-BD2 Antibody	6664-100	100 µg

## HISTONES

Histones are the chief protein components of the chromatin, around which the DNA is wound around to form nucleosomes. Histones undergo numerous post translational modifications (PTMs). Irregularities in these modifications due to various reasons have been implicated in developmental, autoimmune, neurological, inflammatory and neoplastic disorders.

### BioVision's Key Histone Proteins/Peptides

Protein	Catalog #	Sizes
Core Histones (Human)	7677-50, 100	50 µg, 100 µg
Histone H2A (1-129 aa), Xenopus recombinant	7668-100, 250	100 µg, 250 µg
Histone H2B (1-123 aa), Xenopus recombinant	7669-100, 250	100 µg, 250 µg
Histone H3 (1-136 aa), Human recombinant	7670-100, 250	100 µg, 250 µg
Histone H3 Peptide (1-21 aa), Biotin Conjugate	7143-01, 1	100 µg, 1 mg
Histone H3 Peptide (21-44 aa), Biotin Conjugate	2233-01, 1	100 µg, 1 mg
Histone H4 (1-103 aa), Human recombinant	7671-100, 250	100 µg, 250 µg
Histone H4 Peptide, tetra-acetylated, biotin conjugate	7144-01, 1	100 µg, 1 mg

### BioVision's Key Histone Antibodies

Antibody	Catalog #	Sizes
Acetyl-Histone H2A Antibody	3653-100	100 µg
Acetyl-Histone H2B Antibody	3654-100	100 µg
Acetyl-Histone H4 Antibody	3656-100	100 µg
Histone H2A Antibody	3621-100	100 µg
Histone H2AX Antibody	3761-100	100 µg
Histone H2B Antibody	3622-100	100 µg
Histone H3 (phospho-Ser28) (Clone 117C826) Antibody	6119-50	50 µg
Histone H3 Antibody	3623-100	100 µg
Histone H4 Antibody	3624-100	100 µg

### RELATED PRODUCTS

Category	Product type
Eraser Enzymes	HDACs, HDMs, HIFs, PTPs, SIRTs and more
Writer Enzymes	DNMTs, HATs, PARPs, PRMTs, PKMTs and more