

BRD3 Blocking Peptide
Catalog # PBV10507b**Specification**

BRD3 Blocking Peptide - Product Information

Primary Accession	Q15059
Gene ID	8019
Calculated MW	79542

BRD3 Blocking Peptide - Additional Information**Gene ID** 8019**Application & Usage**

The peptide is used for blocking the antibody activity of BRD3. It usually blocks the antibody activity completely in Western blot analysis by incubating the peptide with equal volume of antibody for 30-60 minutes at 37°C.

Other Names

Bromodomain-containing protein 3, RING3-like protein, BRD3, KIAA0043, RING3L

Target/Specificity

BRD3

Formulation

50 µg (0.5 mg/ml) in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA and 0.02% thimerosal.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

BRD3 Blocking Peptide is for research use only and not for use in diagnostic or therapeutic procedures.

BRD3 Blocking Peptide - Protein Information**Name** BRD3 {ECO:0000303|PubMed:18406326, ECO:0000312|HGNC:HGNC:1104}**Function**

Chromatin reader that recognizes and binds acetylated histones, thereby controlling gene expression and remodeling chromatin structures (PubMed:18406326, PubMed:32895492, PubMed:32895492).

[22464331](http://www.uniprot.org/citations/22464331), PubMed: [27105114](http://www.uniprot.org/citations/27105114)). Recruits transcription factors and coactivators to target gene sites, and activates RNA polymerase II machinery for transcriptional elongation (PubMed: [32895492](http://www.uniprot.org/citations/32895492), PubMed: [29567837](http://www.uniprot.org/citations/29567837)). In vitro, binds acetylated lysine residues on the N-terminus of histone H2A, H2B, H3 and H4 (PubMed: [18406326](http://www.uniprot.org/citations/18406326)). Involved in endoderm differentiation via its association with long non-coding RNA (lncRNA) DIGIT: BRD3 undergoes liquid-liquid phase separation upon binding to lncRNA DIGIT, promoting binding to histone H3 acetylated at 'Lys-18' (H3K18ac) to induce endoderm gene expression (PubMed: [32895492](http://www.uniprot.org/citations/32895492)). Also binds non-histones acetylated proteins, such as GATA1 and GATA2: regulates transcription by promoting the binding of the transcription factor GATA1 to its targets (By similarity).

Cellular Location

Nucleus. Chromosome. Note=Detected on chromatin

Tissue Location

Ubiquitous..

BRD3 Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

BRD3 Blocking Peptide - Images