

BRD3 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP8050b**Specification**

BRD3 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q15059](#)**BRD3 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 8019**Other Names**

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

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP8050b](/product/products/AP8050b) was selected from the C-term region of human BRD3. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

BRD3 Antibody (C-term) 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](http://www.uniprot.org/citations/18406326), PubMed:[32895492](http://www.uniprot.org/citations/32895492), PubMed:[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). 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 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

BRD3 Antibody (C-term) Blocking Peptide - Images**BRD3 Antibody (C-term) Blocking Peptide - Background**

This gene was identified based on its homology to the gene encoding the RING3 protein, a serine/threonine kinase. The gene localizes to 9q34, a region which contains several major histocompatibility complex (MHC) genes. The function of the encoded protein is not known.

BRD3 Antibody (C-term) Blocking Peptide - References

Kaneko, H., et al., J Invest Allergol Clin Immunol 12(2):86-90 (2002).Thorpe, K.L., et al., Immunogenetics 44(5):391-396 (1996).Thorpe, K.L., et al., Gene 200 (1-2), 177-183 (1997).