

BRD3 Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8050b**Specification**

BRD3 Antibody (C-term) - Product Information

Application	WB, IHC-P,E
Primary Accession	Q15059
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	672-702

BRD3 Antibody (C-term) - Additional Information**Gene ID** 8019**Other Names**

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

Target/Specificity

This BRD3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 672-702 amino acids from the C-terminal region of human BRD3.

Dilution

WB~~1:1000

IHC-P~~1:50~100

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

BRD3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

BRD3 Antibody (C-term) - 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:[22464331](#), PubMed:[27105114](#)). Recruits transcription factors and coactivators to target

gene sites, and activates RNA polymerase II machinery for transcriptional elongation (PubMed:[32895492](#), PubMed:[29567837](#)). In vitro, binds acetylated lysine residues on the N-terminus of histone H2A, H2B, H3 and H4 (PubMed:[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

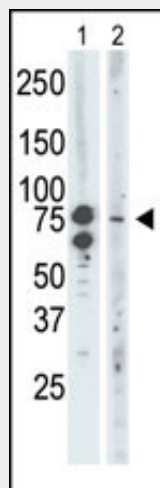
Ubiquitous..

BRD3 Antibody (C-term) - Protocols

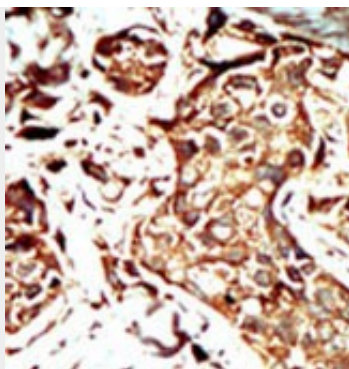
Provided below are standard protocols that you may find useful for product applications.

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

BRD3 Antibody (C-term) - Images



The anti-BRD3 Pab (Cat. #AP8050b) is used in Western blot to detect BRD3 in mouse brain tissue lysate (Lane 1) and Saos-2 cell lysate (Lane 2).



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

BRD3 Antibody (C-term) - 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) - References

Kaneko, H., et al., J Investig 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).

BRD3 Antibody (C-term) - Citations

- [The bromodomain protein inhibitor I-BET151 suppresses expression of inflammatory genes and matrix degrading enzymes in rheumatoid arthritis synovial fibroblasts.](#)