

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

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**BRD3 Antibody (C-term) - Product Information**

Application	IHC-P, WB,E
Primary Accession	<a href="#">Q15059</a>
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**

IHC-P~~1:50~100

WB~~1:1000

E~~Use at an assay dependent concentration.

**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:[22464331](#),

PubMed:[27105114](#), PubMed:[32895492](#)). Recruits transcription factors and coactivators to target gene sites, and activates RNA polymerase II machinery for transcriptional elongation (PubMed:[29567837](#), PubMed:[32895492](#)). 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

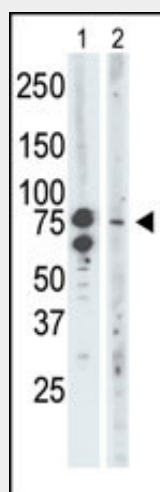
Ubiquitous..

### BRD3 Antibody (C-term) - Protocols

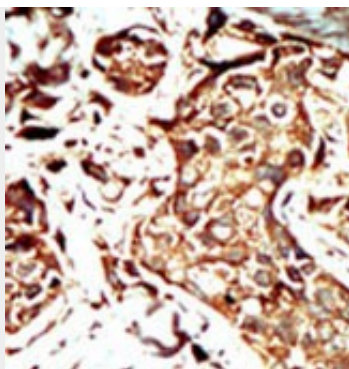
Provided below are standard protocols that you may find useful for product applications.

- [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.](#)