

BRD3 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51019**Specification**

BRD3 Antibody - Product Information

Application	WB
Primary Accession	Q15059
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	80, 61 KDa
Antigen Region	601 - 660

BRD3 Antibody - Additional Information**Gene ID** 8019**Other Names**

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

Target/Specificity

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human BRD3. The exact sequence is proprietary.

Dilution

WB~~ 1:1000

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

BRD3 Antibody - 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:29567837).

[32895492](http://www.uniprot.org/citations/32895492)). 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

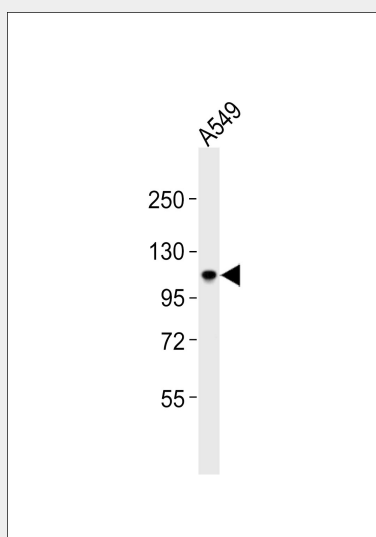
Ubiquitous..

BRD3 Antibody - 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 - Images



Anti-BRD3 Antibody at 1:1000 dilution + A549 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 80 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

BRD3 Antibody - Background

Binds hyperacetylated chromatin and plays a role in the regulation of transcription, probably by chromatin remodeling and interaction with transcription factors. Regulates transcription by promoting the binding of the transcription factor GATA1 to its targets (By similarity). Regulates transcription of the CCND1 gene.

BRD3 Antibody - References

Nomura N.,et al.DNA Res. 1:223-229(1994).
Ishii H.,et al.DNA Cell Biol. 24:432-437(2005).
Humphray S.J.,et al.Nature 429:369-374(2004).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Thorpe K.L.,et al.Gene 200:177-183(1997).