

BRD3 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV11179**Specification****BRD3 Antibody - Product Information**

Application	WB
Primary Accession	Q15059
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	79542

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

Positive Control	Western blot: 3T3 cell lysate
Application & Usage	Western blot: 1:200

Other Names

Bromodomain containing 3, isoform CRA_b, ORFX; RING3L; Bromodomain containing protein 3; RING3-like protein

Target/Specificity

BRD3

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

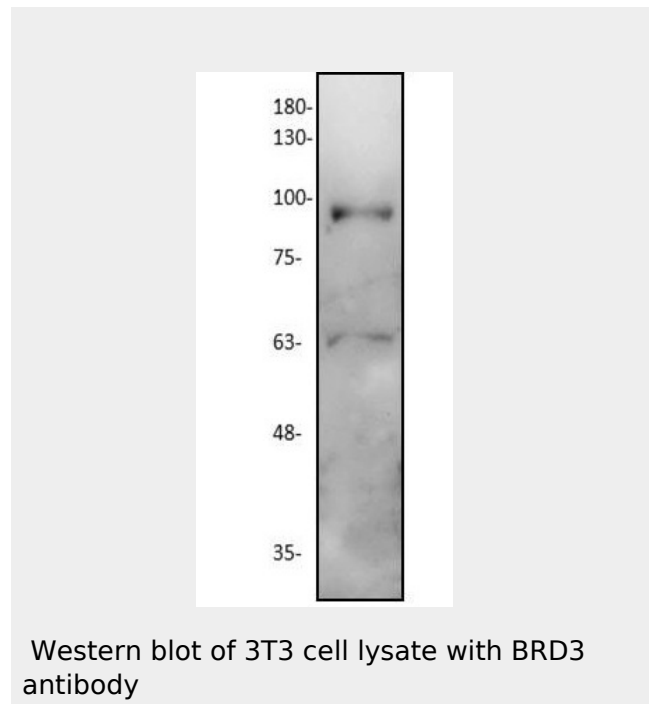
100 µg (0.5 mg/ml) of antibody in PBS, 0.01 % BSA, 0.01 % thimerosal, and 50 % glycerol, pH 7.2

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions**BRD3 Antibody - Background**

The acetylation of histone lysine residues plays a crucial role in the epigenetic regulation of gene transcription. A bromodomain is a protein domain that recognizes acetylated lysine residues such as those on the N-terminal tails of histones. This recognition is often a prerequisite for protein-histone association and chromatin remodeling. These domains function in the linking of protein complexes to acetylated nucleosomes, thereby controlling chromatin structure and gene expression. Thus, bromodomains serve as “readers” of histone acetylation marks regulating the transcription of target promoters. The BET family of proteins, defined by tandem Bromodomains and an Extra Terminal domain, include BRD2, BRD3, BRD4, and BRDT. The BET proteins play a key role in many cellular processes, including inflammatory gene expression, mitosis, and viral/host interactions. The isolated individual or tandem bromodomains of BRD3 have been shown to bind acetylated histone tails, serving to couple

Precautions

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

histone acetylation marks to the transcriptional regulation of target promoters. Small molecule inhibitors of these interactions hold promise as useful therapeutics for human disease.

BRD3 Antibody - Protein Information

Name BRD3

Synonyms KIAA0043, RING3L

Function

Chromatin reader that recognizes and binds hyperacetylated chromatin and plays a role in the regulation of transcription, probably by chromatin remodeling and interaction with transcription factors (PubMed:18406326, PubMed:27105114). Regulates transcription by promoting the binding of the transcription factor GATA1 to its targets (By similarity).

Cellular Location

Nucleus

{ECO:0000250|UniProtKB:Q8K2F0}.

Note=Detected on chromatin.

{ECO:0000250|UniProtKB:Q8K2F0}

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](#)