abcam

ab264420

Anti-BRD3 antibody [BLR069G]

Recombinant

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.8 - 8.6 Preservative: 0.09% Sodium azide Constituents: 99% Borate buffered saline, 0.1% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	Synthetic Peptide within Human BRD3 aa 650 to C-terminus. The exact immunogen used to generate this antibody is proprietary information. Database link Q15059
Clone number	BLR069G
Purification notes	Purified from cell culture supernatant.

Reactivity data

IHC-P

Tested

Species	Human
Dilution info	1/100 - 1/500
Notes	-

ICC

Tested

Species	Human
Dilution info	1/100 - 1/500
Notes	Epitope retrieval with citrate buffer pH6.0 is recommended for FFPE cell sections.

IP

Tested

Species	Human
Dilution info	-
Notes	Use 20 µl/mg lysate.

WB

Tested

Species	Human
Dilution info	1/1000
Notes	-

Flow Cyt

Tested

Species	Human
Dilution info	1 µL for 10^6 Cells
Notes	-

Target data

See full target information BRD3

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).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle, Do Not Freeze

Notes

REACH authorisation
Abcam has not and does not intend to apply for the REACH Authorisation of customers' uses of products that contain European Authorisation list (Annex XIV) substances.
It is the responsibility of our customers to check the necessity of application of REACH Authorisation, and any other relevant authorisations, for their intended uses.

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Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

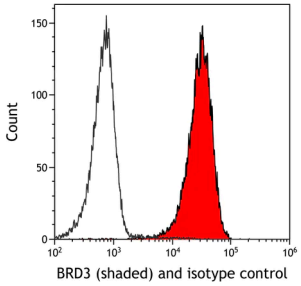
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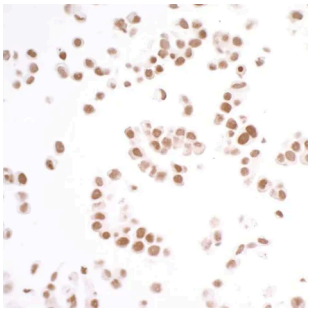
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7 product images



Flow Cytometry - Anti-BRD3 antibody [BLR069G] (ab264420)

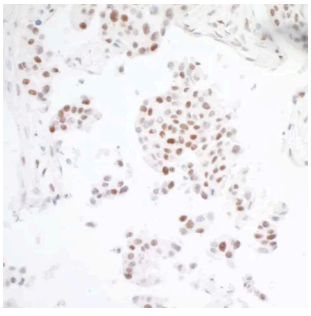
Flow cytometry overlay histogram of 4% formaldehyde fixed K562 cells permeabilized with 90% methanol labeling human BRD3 with ab264420 at 1 µl per 1 x 10^6 cells (shaded) compared with a Isotype control (unshaded). Secondary antibody details: Goat Anti-Rabbit IgG H&L (DyLight® 650) (ab96886).



Immunocytochemistry - Anti-BRD3 antibody [BLR069G] (ab264420)

BRD3 Immunocytochemistry staining using rabbit Anti-BRD3 antibody

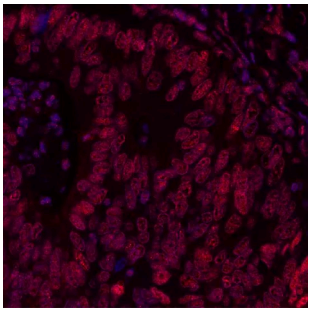
Immunocytochemical analysis of formalin-fixed, paraffin-embedded OVCAR-3 cells labeling BRD3 with ab264420 at 1/250 dilution. Secondary: HRP-conjugated goat anti-rabbit IgG. Substrate: DAB.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BRD3 antibody [BLR069G] (ab264420)

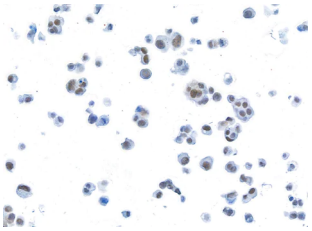
BRD3 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-BRD3 antibody

Immunohistochemical analysis of formalin-fixed, paraffin-embedded human lung carcinoma tissue labeling BRD3 with ab264420 at 1/250 dilution. Secondary: HRP-conjugated goat anti-rabbit IgG. Substrate: DAB.



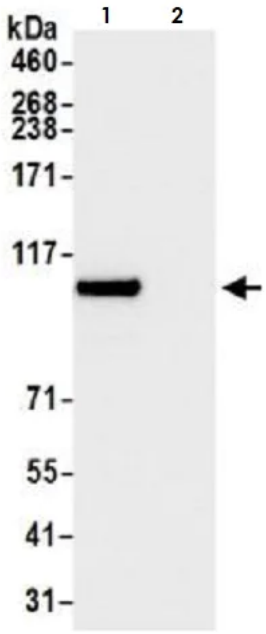
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BRD3 antibody [BLR069G] (ab264420)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded human colon carcinoma tissue labeling BRD3 with ab264420 at 1/200 dilution. Detection: DAB. Secondary: DyLight® 594-conjugated goat anti-rabbit IgG. Counterstain: DAPI (blue).



Immunocytochemistry - Anti-BRD3 antibody [BLR069G] (ab264420)

Immunocytochemical analysis of Formalin-Fixed Paraffin-Embedded OVCAR-3 cells labeling human BRD3 with ab264420 followed by a HRP-conjugated goat anti-rabbit IgG as secondary. Substrate: DAB. Nuclear staining on OVCAR-3 cells is observed. Counter stained with hematoxylin. Epitope retrieval with citrate buffer pH 6.0 for 20 minutes is recommended.



Immunoprecipitation - Anti-BRD3 antibody [BLR069G] (ab264420)

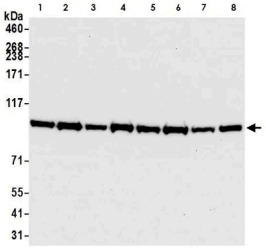
BRD3 was immunoprecipitated from HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) with ab264420 at 20 µl/mg lysate. Western blot was performed from the immunoprecipitates using ab264420 at 1/1000 dilution.
Lane 1: ab264420 IP in HEK-293T whole cell lysate.
Lane 2: Control IgG IP in HEK-293T whole cell lysate.

Detection: Chemiluminescence with an exposure time of 1 second.

Lysates prepared using NETN lysis buffer.

All lanes:
Immunoprecipitation - Anti-BRD3 antibody [BLR069G] (ab264420)

Predicted band size: 80 kDa



Western blot - Anti-BRD3 antibody [BLR069G] (ab264420)

Lysates prepared using NETN lysis buffer.
All lanes:
Western blot - Anti-BRD3 antibody [BLR069G] (ab264420) at 1/1000 dilution

Lane 1:
HEK-293T whole cell lysate at 50 µg

Lane 2:
RKO whole cell lysate at 50 µg

Lane 3:
Jurkat whole cell lysate at 50 µg

Lane 4:
LNcaP whole cell lysate at 50 µg

Lane 5:

HeLa whole cell lysate at 50 µg

Lane 6:
MCF7 whole cell lysate at 50 µg

Lane 7:
K562 whole cell lysate at 50 µg

Lane 8:
HepG2 whole cell lysate at 50 µg

Secondary

All lanes:
HRP-conjugated goat anti-rabbit IgG

Developed using the ECL technique.

Predicted band size: 80 kDa

Exposure time: 10s

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.