abcam

ab314049

Anti-BRD7 antibody [BLR220K] - BSA free

Recombinant

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.8 - 8.6 Preservative: 0.09% Sodium azide Constituents: 98% Borate buffered saline
Form	Liquid
Clonality	Monoclonal
Immunogen	Synthetic Peptide within Human BRD7 aa 150-200. The exact immunogen used to generate this antibody is proprietary information. Database link Q9NPI1
Clone number	BLR220K

Reactivity data

Flow Cyt

Tested

Species	Mouse, Human
Dilution info	-
Notes	-

WB

Tested

Species	Mouse, Human
Dilution info	-
Notes	-

Target data

See full target information BRD7

Function	Acts both as coactivator and as corepressor. May play a role in chromatin remodeling. Activator of the Wnt signaling pathway in a DVL1-dependent manner by negatively regulating the GSK3B phosphotransferase activity. Induces dephosphorylation of GSK3B at 'Tyr-216'. Down-regulates TRIM24-mediated activation of transcriptional activation by AR (By similarity). Transcriptional corepressor that down-regulates the expression of target genes. Binds to target promoters, leading to increased histone H3 acetylation at 'Lys-9' (H3K9ac). Binds to the ESR1 promoter. Recruits BRCA1 and POU2F1 to the ESR1 promoter. Coactivator for TP53-mediated activation of transcription of a set of target genes. Required for TP53-mediated cell-cycle arrest in response to oncogene activation. Promotes acetylation of TP53 at 'Lys-382', and thereby promotes efficient recruitment of TP53 to target promoters. Inhibits cell cycle progression from G1 to S phase.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	Up to 12 months
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C

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.

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

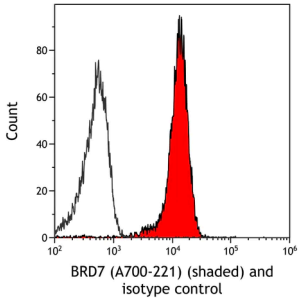
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

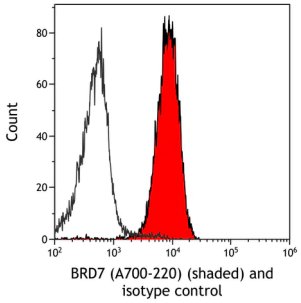
Full details and terms and conditions can be found here:
Terms & Conditions.

4 product images



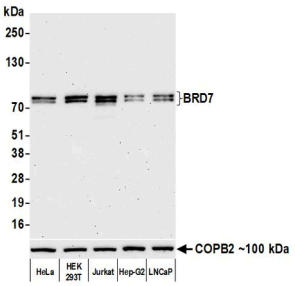
Flow Cytometry - Anti-BRD7 antibody [BLR220K] - BSA free (ab314049)

Detection of human BRD7 (shaded) in HeLa cells by flow cytometry. Antibody: Rabbit anti-BRD7 recombinant monoclonal antibody [BLR220K] (A700-220) or isotype control (unshaded). Secondary: DyLight® 650-conjugated goat anti-rabbit IgG



Flow Cytometry - Anti-BRD7 antibody [BLR220K] - BSA free (ab314049)

Detection of mouse BRD7 (shaded) in EL4 cells by flow cytometry. Antibody: Rabbit anti-BRD7 recombinant monoclonal antibody [BLR220K] (A700-220) or isotype control (unshaded). Secondary :DyLight® 650-conjugated goat anti-rabbit IgG (A120-101D5).



Western blot - Anti-BRD7 antibody [BLR220K] - BSA free (ab314049)

Samples: cells prepared using NETN lysis buffer. Antibody:Rabbit anti-BRD7 recombinant monoclonal antibody [BLR220K] used at 1:1000. Secondary:HRP-conjugated goat anti-rabbit IgG . Chemiluminescence with an exposure time of 75 seconds. Lower Panel: Rabbit anti-COPB2 antibody
All lanes:
Western blot - Anti-BRD7 antibody [BLR220K] - BSA free (ab314049) at 1/1000 dilution

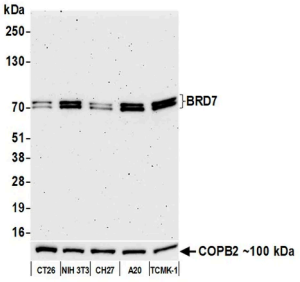
Lane 1:
HeLa Whole cell at 10 µg

Lane 2:
HEK293T Whole cell lysate at 10 µg

Lane 3:
Jurkat Whole cell lysate at 10 µg

Lane 4:
HepG2 Whole cell lysate at 10 µg

Lane 5:
LNCaP Whole cell lysate at 10 µg



Western blot - Anti-BRD7 antibody [BLR220K] - BSA free (ab314049)

Sample cells prepared using NETN lysis buffer. Antibody: Rabbit anti-BRD7 recombinant monoclonal antibody [BLR220K] used at 1:1000. Secondary: HRP-conjugated goat anti-rabbit IgG. Chemiluminescence with an exposure time of 3 minutes. Lower Panel: Rabbit anti-COPB2 antibody
All lanes:
Western blot - Anti-BRD7 antibody [BLR220K] - BSA free (ab314049) at 1/1000 dilution

Lane 1:
CT26 Whole cell lysate at 10 µg

Lane 2:
NIH 3T3 Whole cell lysate at 10 µg

Lane 3:
CH27 Whole cell lysate at 10 µg

Lane 4:
A20 Whole cell lysate at 10 µg

Lane 5:
TCMK-1 Whole cell lysate at 10 µg

Secondary

All lanes:
HRP-conjugated goat anti-rabbit IgG

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