abcam

ab314091

# Anti-BRD9 antibody [BLR153J] - BSA free

Recombinant | KO Validated

## 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 BRD9 aa 500-600. The exact immunogen used to generate this antibody is proprietary information. Database link Q9H8M2 |
| **Clone number** | BLR153J |
| **Concentration** | 1 mg/mL The concentration of this product may be batch-dependent<br>Batch concentration finder → |

## Reactivity data

## Flow Cyt

### Tested

| | |
|---|---|
| **Species** | Human, Mouse |
| **Dilution info** | - |
| **Notes** | - |

## ICC

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | - |
| **Notes** | - |

### Expected

| | |
|---|---|
| **Species** | Mouse |
| **Dilution info** | Use at an assay dependent concentration. |
| **Notes** | - |

## IHC-P

### Tested

| | |
|---|---|
| **Species** | Human, Mouse |
| **Dilution info** | - |
| **Notes** | - |

## IP

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | - |
| **Notes** | - |

### Expected

| | |
|---|---|
| **Species** | Mouse |
| **Dilution info** | Use at an assay dependent concentration. |
| **Notes** | - |

## WB

### Tested

| | |
|---|---|
| **Species** | Mouse, Human |
| **Dilution info** | - |
| **Notes** | - |

## Target data

See full target information BRD9

| | |
|---|---|
| **Function** | Plays a role in chromatin remodeling and regulation of transcription (PubMed:22464331, PubMed:26365797). Acts as a chromatin reader that recognizes and binds acylated histones: binds histones that are acetylated and/or butyrylated (PubMed:26365797). Component of SWI/SNF chromatin remodeling subcomplex GBAF that carries out key enzymatic activities, changing chromatin structure by altering DNA-histone contacts within a nucleosome in an ATP-dependent manner (PubMed:29374058). Also orchestrates the RAD51-RAD54 complex formation and thereby plays a role in homologous recombination (HR) (PubMed:32457312). |

## 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.

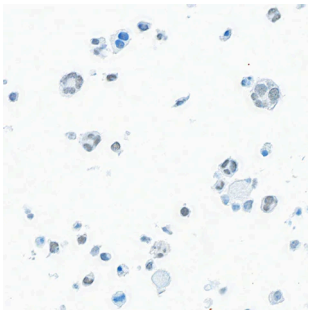
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We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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

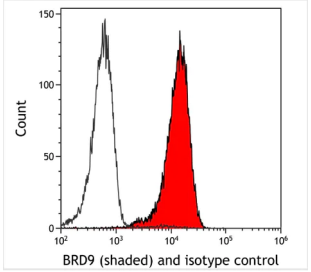
Full details and terms and conditions can be found here:
Terms & Conditions.

## 9 product images



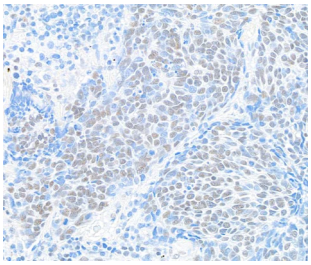
### Immunocytochemistry - Anti-BRD9 antibody [BLR153J] - BSA free (ab314091)

Sample: FFPE section of HDLM-2 cells. Antibody: Rabbit anti-BRD9 recombinant monoclonal antibody [BLR153J] (A700-153). Secondary :HRP-conjugated goat antirabbit IgG.



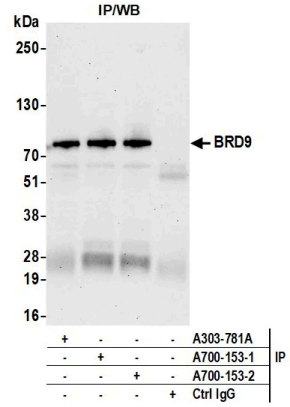

### Flow Cytometry - Anti-BRD9 antibody [BLR153J] - BSA free (ab314091)

Detection of human BRD9 (shaded) in HDLM-2 cells by flow cytometry.Antibody:Rabbit anti-BRD9 recombinant monoclonal antibody [BLR153J] (A700-153) or isotype control (unshaded). Secondary:DyLight® 650-conjugated goat anti-rabbit IgG.



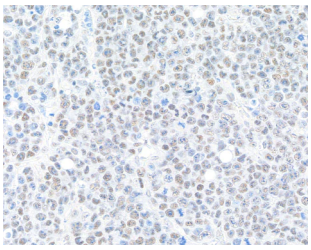
## Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BRD9 antibody [BLR153J] - BSA free (ab314091)

Detection of human BRD9 by immunohistochemistry. Sample: FFPE section of lung carcinoma. Antibody: Rabbit anti-BRD9 recombinant monoclonal antibody [BLR153J] (A700-153). Secondary: HRP-conjugated goat antirabbit IgG.



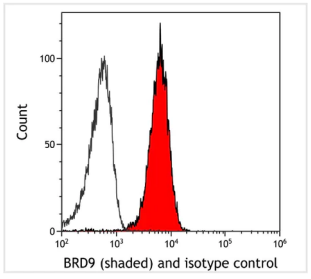

## Immunoprecipitation - Anti-BRD9 antibody [BLR153J] - BSA free (ab314091)

Samples: Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from HeLa cells prepared using NETN lysis buffer. Antibodies: Rabbit anti-BRD9 recombinant monoclonal antibody [BLR153J] (A700-153-2) used for IP at 20 µl/mg lysate. BRD9 was also immunoprecipitated by a previous lot of this antibody (A700-153-1) and a second antibody against a different epitope of BRD9 (A303-781A). For blotting immunoprecipitated BRD9, A700-153 was used at 1:1000. Detection: Chemiluminescence with an exposure time of 30 seconds.



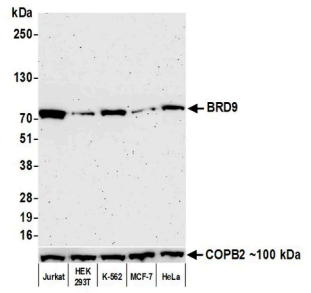
## Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BRD9 antibody [BLR153J] - BSA free (ab314091)

Sample: FFPE section of mouse plasmacytoma. Antibody: Rabbit anti-BRD9 recombinant monoclonal antibody [BLR153J] (A700-153). Secondary: HRP-conjugated goat anti-rabbit IgG.




## Flow Cytometry - Anti-BRD9 antibody [BLR153J] - BSA free (ab314091)

Detection of mouse BRD9 (shaded) in NIH3T3 cells by flow cytometry. Antibody: Rabbit anti-BRD9 recombinant monoclonal antibody [BLR153J] (A700-153) or isotype control (unshaded). Secondary: 650-conjugated goat anti-rabbit IgG.




## Western blot - Anti-BRD9 antibody [BLR153J] - BSA free (ab314091)

Samples: Whole cell lysate (30 µg) from Jurkat, HEK293T, K-562, MCF-7, and HeLa cells prepared using NETN lysis buffer. Antibody: Rabbit anti-BRD9 recombinant monoclonal antibody [BLR153J] (A700-153) used at 1:1000. Secondary: HRP-conjugated goat anti-rabbit IgG. Detection: Chemiluminescence with an exposure time of 3 minutes. Lower Panel: Rabbit anti-COPB2 antibody.
All lanes:
Western blot - Anti-BRD9 antibody [BLR153J] - BSA free (ab314091) at 1/1000 dilution

Lane 1:
Jurkat Whole cell lysate at 30 µg

Lane 2:
HEK293T Whole cell lysate at 30 µg

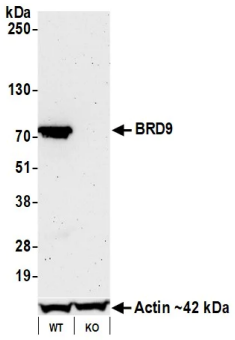
Lane 3:
K-562 Whole cell lysate at 30 µg

Lane 4:
MCF-7 Whole cell lysate at 30 µg

Lane 5:
HeLa Whole cell lysate at 30 µg

Secondary

All lanes:
HRP-conjugated goat anti-rabbit IgG




## Western blot - Anti-BRD9 antibody [BLR153J] - BSA free (ab314091)

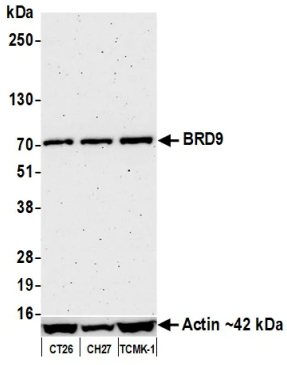
Samples: Whole cell lysate (50 µg) prepared using NETN buffer from Jurkat cells (WT and KO). Antibody: Rabbit anti-BRD9 recombinant monoclonal antibody [BLR153J] (A700-153) used at 1:1000. Secondary: HRP-conjugated goat antirabbit IgG. Detection: Chemiluminescence with an exposure time of 3 minutes. Lower Panel: Rabbit anti-Actin recombinant monoclonal antibody [BLR057F].
All lanes:
Western blot - Anti-BRD9 antibody [BLR153J] - BSA free (ab314091) at 1/1000 dilution

Lane 1:
Jurkat WT Whole cell lysate at 50 µg

Lane 2:
Jurkat KO Whole cell lysate at 50 µg

Secondary

All lanes:
HRP-conjugated goat antirabbit IgG




## Western blot - Anti-BRD9 antibody [BLR153J] - BSA free (ab314091)

Samples: Whole cell lysate (30 µg) from CT26, CH27, and TCMK-1 cells prepared using NETN lysis buffer. Antibody: Rabbit antiBRD9 recombinant monoclonal antibody [BLR153J] (A700-153) used at 1:1000. Secondary: HRP-conjugated goat anti-rabbit IgG. Detection: Chemiluminescence with an exposure time of 3 minutes. Lower Panel: Rabbit anti-Actin recombinant monoclonal antibody [BLR057F].
All lanes:
Western blot - Anti-BRD9 antibody [BLR153J] - BSA free (ab314091) at 1/1000 dilution

Lane 1:
CT26 Whole cell lysate at 30 µg

Lane 2:
CH27 Whole cell lysate at 30 µg

Lane 3:
TCMK-1 Whole cell lysate at 30 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'.