abcam

Product datasheet

Anti-BRD9 antibody [EPR23888-5] ab259839

KO VALIDATED Recombinant RabMAb

1 Abreviews 8 Images

Overview

Product name	Anti-BRD9 antibody [EPR23888-5]
Description	Rabbit monoclonal [EPR23888-5] to BRD9
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P **Unsuitable for:** ChIP,Flow Cyt (Intra),ICC/IF or IP
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa, 293T, NIH/3T3, PC-12, K-562, HDLM-2, LNCaP, Jurkat, Neuro-2a and RAW 264.7, C6 lysates. IHC-P: Human testis, Mouse testis, Rat testis tissues.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 59.94% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR23888-5
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab259839 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

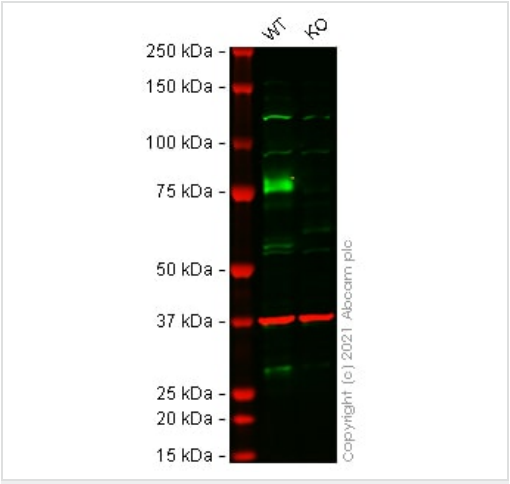
Application	Abreviews	Notes
WB	★★★★☆ **(1)**	1/1000.
IHC-P		1/500.

Application notes Is unsuitable for ChIP,Flow Cyt (Intra),ICC/IF or IP.

Target

Relevance BRD9 is a bromodomain containing protein, which are known to bind to acetylated lysine residues.

Images



Western blot - Anti-BRD9 antibody [EPR23888-5] (ab259839)

All lanes : Anti-BRD9 antibody [EPR23888-5] (ab259839) at 1/1000 dilution

Lane 1 : Wild-type HEK-293T cell lysate
Lane 2 : BRD9 knockout HEK-293T cell lysate

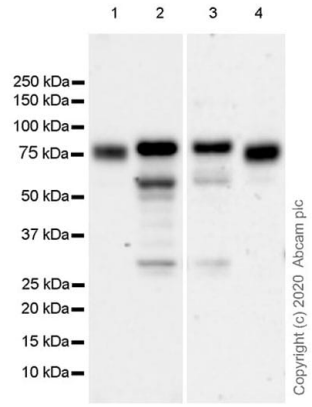
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Observed band size: 75 kDa

False colour image of Western blot: Anti-BRD9 antibody [EPR23888-5] staining at 1/1000 dilution, shown in green; Mouse anti-GAPDH antibody [6C5] (**ab8245**) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab259839 was shown to bind specifically to BRD9. A band was observed at 75 kDa in wild-type HEK-293T cell lysates with no signal observed at this size in BRD9 knockout cell line **ab266763** (knockout cell lysate **ab258336**). To generate this image, wild-type and BRD9 knockout HEK-293T cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane.

Membranes were blocked in 5 % milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) at 1/20000 dilution.



Western blot - Anti-BRD9 antibody [EPR23888-5] (ab259839)

All lanes : Anti-BRD9 antibody [EPR23888-5] (ab259839) at 1/1000 dilution

Lane 1 : K-562 (human chronic myelogenous leukemia lymphoblast) whole cell lysate
Lane 2 : HDLM-2 (human hodgkin lymphoma) whole cell lysate
Lane 3 : LNCaP (human prostate carcinoma epithelial cell) whole cell lysate
Lane 4 : Jurkat (human t cell leukemia t lymphocyte) whole cell lysate

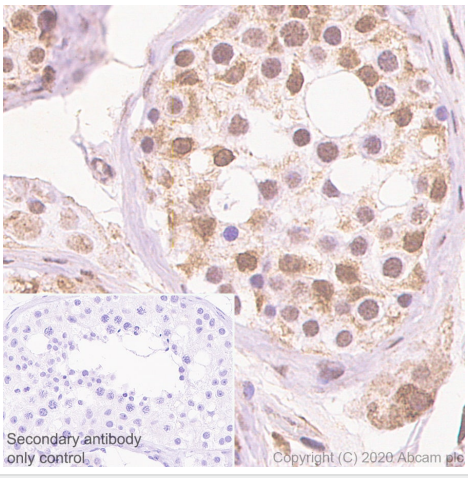
Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Observed band size: 80 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBSTLysates used in this blot have experienced freeze-thaw cycles.

Exposure time: Lanes 1-2: 37 seconds;Lanes 3-4: 3 minutes.

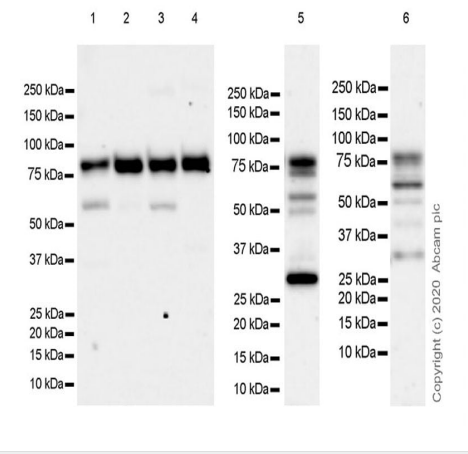


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BRD9 antibody [EPR23888-5] (ab259839)

Immunohistochemical analysis of paraffin-embedded Human testis tissue labelling BRD9 with ab259839 at 1/500 dilution (0.908 ug/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Nuclear and weak cytoplasmic staining on human testis. The section was incubated with ab259839 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins



Western blot - Anti-BRD9 antibody [EPR23888-5] (ab259839)

All lanes : Anti-BRD9 antibody [EPR23888-5] (ab259839) at 1/1000 dilution

Lanes 1 & 5 : HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate
Lane 2 : 293T (human embryonic kidney epithelial cell) whole cell lysate
Lane 3 : NIH/3T3 (mouse embryonic fibroblast) whole cell lysate
Lanes 4 & 6 : PC-12 (rat adrenal gland pheochromocytoma) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

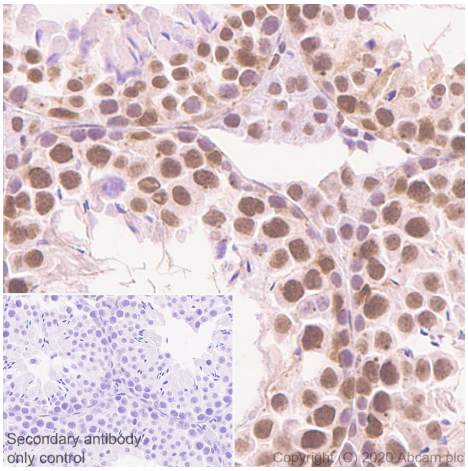
Observed band size: 80 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST

The molecular weight observed is consistent with what has been described in the literature (PMID:32457312; 31015438).

Lysates were made freshly and used in WB immediately to minimize protein degradation (lane1-4). Lanes 5-6 are the lysates from same cell lines but have experienced freeze-thaw cycles.

Exposure time: Lanes 1-4: 37 seconds; Lanes 5-6: 3 minutes.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BRD9 antibody [EPR23888-5] (ab259839)

Immunohistochemical analysis of paraffin-embedded Mouse testis tissue labelling BRD9 with ab259839 at 1/500 dilution (0.908 ug/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Nuclear staining on mouse testis. The section was incubated with ab259839 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

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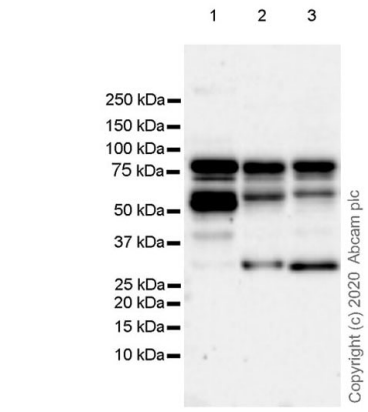


Western blot - Anti-BRD9 antibody [EPR23888-5] (ab259839)

All lanes : Anti-BRD9 antibody [EPR23888-5] (ab259839) at 1/1000 dilution

Lane 1 : Neuro-2a (mouse neuroblastoma neuroblast) whole cell lysate
Lane 2 : RAW 264.7 (mouse abelson murine leukemia virus-induced tumor macrophage) whole cell lysate
Lane 3 : C6 (rat glial tumor glial cell) whole cell lysate

Lysates/proteins at 20 µg per lane.

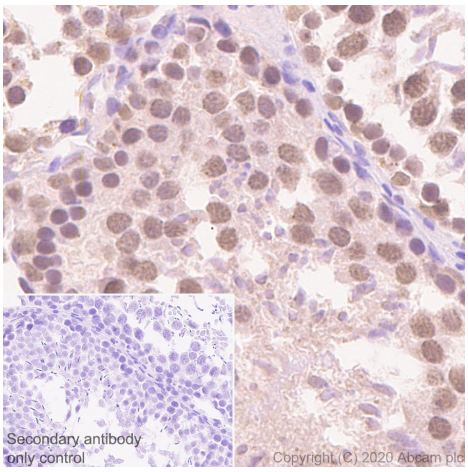
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Observed band size: 80 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST

Lysates used in this blot have experienced freeze-thaw cycles.

Exposure time: 3 minutes



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BRD9 antibody [EPR23888-5] (ab259839)

Immunohistochemical analysis of paraffin-embedded Rat testis tissue labelling BRD9 with ab259839 at 1/500 dilution (0.908 ug/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Nuclear and weak cytoplasmic staining on rat testis. The section was incubated with ab259839 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

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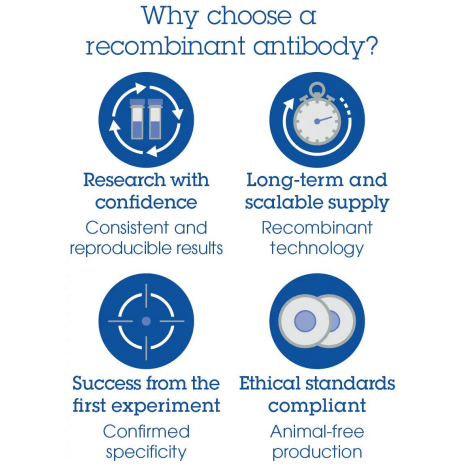

Anti-BRD9 antibody [EPR23888-5] (ab259839)

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