

Product datasheet

Anti-Jarid2 antibody [EPR6357(2)] - ChIP Grade ab192252


KO VALIDATED

Recombinant

RabMAb

★★★★☆ 2 Abreviews 4 References 6 Images

Overview

Product name	Anti-Jarid2 antibody [EPR6357(2)] - ChIP Grade
Description	Rabbit monoclonal [EPR6357(2)] to Jarid2 - ChIP Grade
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF, ChIP
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	NCCIT, SH-SY5Y, 293 and U87-MG cell lysates; SH-SY5Y cells.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

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	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)</p>
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR6357(2)

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab192252 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	★★★★☆ (2)	1/1000 - 1/10000. Detects a band of approximately 139 kDa (predicted molecular weight: 139 kDa).
ICC/IF		1/100.
ChIP		Use at an assay dependent concentration.

Target

Function

Regulator of histone methyltransferase complexes that plays an essential role in embryonic development, including heart and liver development, neural tube fusion process and hematopoiesis. Acts by modulating histone methyltransferase activity and promoting the recruitment of histone methyltransferase complexes to their target genes. Binds DNA and mediates the recruitment of the PRC2 complex to target genes in embryonic stem cells. Does not have histone demethylase activity but regulates activity of various histone methyltransferase complexes. In embryonic stem cells, it associates with the PRC2 complex and inhibits trimethylation of 'Lys-27' of histone H3 (H3K27me3) by the PRC2 complex, thereby playing a key role in differentiation of embryonic stem cells and normal development. In cardiac cells, it is required to repress expression of cyclin-D1 (CCND1) by activating methylation of 'Lys-9' of histone H3 (H3K9me) by the GLP1/EHMT1 and G9a/EHMT2 histone methyltransferases. Also acts as a transcriptional repressor of ANF via its interaction with GATA4 and NKX2-5. Participates in the negative regulation of cell proliferation signaling.

Tissue specificity

During embryogenesis, predominantly expressed in neurons and particularly in dorsal root ganglion cells.

Sequence similarities

Contains 1 ARID domain.
Contains 1 JmjC domain.
Contains 1 JmjN domain.

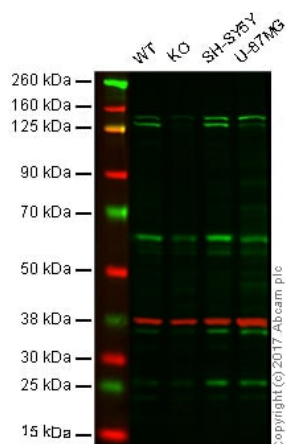
Domain

The ARID domain is required to target the PRC2 complex to its target genes.
The GSGFP motif is required for the interaction with SUZ12.

Cellular localization

Nucleus. Colocalizes with the PRC2 complex on chromatin.

Images



Western blot - Anti-Jarid2 antibody [EPR6357(2)] - ChIP Grade (ab192252)

Lane 1: Wild-type HAP1 whole cell lysate (20 µg)

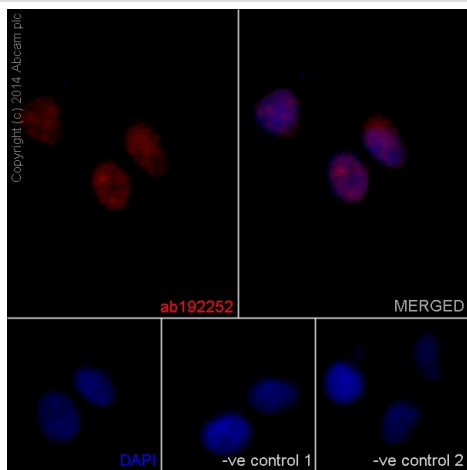
Lane 2: JARID2 (KO) knockout HAP1 whole cell lysate (20 µg)

Lane 3: SH-SY5Y whole cell lysate (20 µg)

Lane 4: U87MG whole cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab192252 observed at 138 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab192252 was shown to specifically recognize JARID2 in wild-type HAP1 cells along with additional cross reactive bands. No band was observed when JARID2 knockout samples were examined. Wild-type and JARID2 knockout samples were subjected to SDS-PAGE. Ab192252 and **ab8245** (Mouse anti GAPDH loading control) were incubated overnight at 4°C at 1/1000 dilution and 1/10,000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/10,000 dilution for 1 hour at room temperature before imaging.



Immunocytochemistry/ Immunofluorescence - Anti-Jarid2 antibody [EPR6357(2)] - ChIP Grade (ab192252)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% triton X-100 permeabilized SH-SY5Y cells labeling Jarid2 with ab192252 at 1/100 dilution, followed by Goat anti rabbit IgG (Alexa Fluor® 555) secondary antibody (**ab150078**) at 1/500 dilution. Nuclear counter stain Dapi (blue).

The two negative controls are ab192252 at 1/100 dilution followed by Goat anti mouse IgG (Alexa Fluor®488) secondary antibody at 1/200 dilution.



ChIP - Anti-Jarid2 antibody [EPR6357(2)] - ChIP Grade (ab192252)

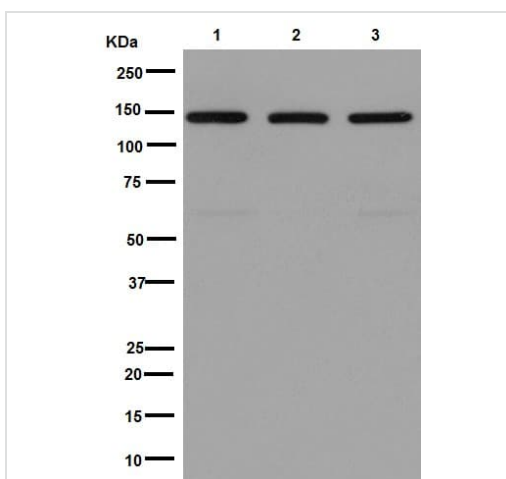
Chromatin was prepared from HeLa cells according to the Abcam Dual X-ChIP protocol*. Cells were fixed with EGS for 30 minutes, then formaldehyde for 10 minutes.

The ChIP was performed with 25 µg of chromatin, 5 µg of ab192252 (red), and 20 µl of Protein A/G sepharose beads. 5 µg of rabbit normal IgG was added to the beads control (gray). The immunoprecipitated DNA was quantified by real time PCR (Sybr green approach).

Primers and probes are located in the first kb of the transcribed region.

*[http://www.abcam.com/resources?](http://www.abcam.com/resources?keywords=X%20ChIP%20protocol)

keywords=X%20ChIP%20protocol



Western blot - Anti-Jarid2 antibody [EPR6357(2)] - ChIP Grade (ab192252)

All lanes : Anti-Jarid2 antibody [EPR6357(2)] - ChIP Grade (ab192252) at 1/10000 dilution

Lane 1 : NCCIT cell lysate

Lane 2 : SH-SY5Y cell lysate

Lane 3 : 293 cell lysate

Lysates/proteins at 20 µg per lane.

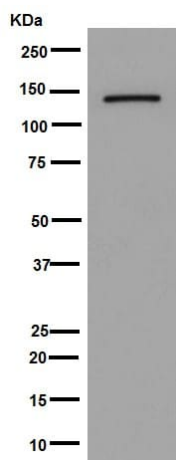
Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 139 kDa

Observed band size: 139 kDa

Blocking/Dilution buffer: 5% NFDM /TBST.



Western blot - Anti-Jarid2 antibody [EPR6357(2)] - ChIP Grade (ab192252)

Anti-Jarid2 antibody [EPR6357(2)] - ChIP Grade (ab192252) at 1/1000 dilution + U87-MG cell lysate at 20 µg

Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 139 kDa

Observed band size: 139 kDa

Blocking/Dilution buffer: 5% NFDM /TBST.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

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Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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