


## Product datasheet

# Anti-KDM5A / Jarid1A / RBBP2 antibody [EPR12742] ab177486

KO VALIDATED Recombinant RabMAb

[1 References](#) [4 Images](#)

### Overview

<b>Product name</b>	Anti-KDM5A / Jarid1A / RBBP2 antibody [EPR12742]
<b>Description</b>	Rabbit monoclonal [EPR12742] to KDM5A / Jarid1A / RBBP2
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt (Intra), WB <b>Unsuitable for:</b> ICC/IF, IHC-P or IP
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat 
<b>Immunogen</b>	Synthetic peptide within Human KDM5A/ Jarid1A/ RBBP2 aa 1450-1550 (Cysteine residue). The exact sequence is proprietary. Database link: <a href="#">P29375</a>
<b>Positive control</b>	HeLa, 293T, MCF7 and NCCIT cell lysates; permeabilized NCCIT cells.
<b>General notes</b>	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> For more information <a href="#">see here</a> . Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant

<b>Purity</b>	Tissue culture supernatant
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR12742
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab177486 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
<b>Flow Cyt (Intra)</b>		1/10 - 1/100. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
<b>WB</b>		1/1000 - 1/5000. Detects a band of approximately 200 kDa (predicted molecular weight: 192 kDa).

**Application notes** Is unsuitable for ICC/IF, IHC-P or IP.

## Target

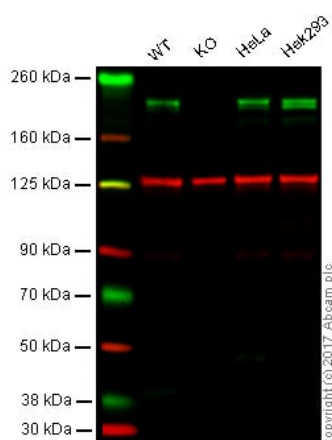
**Function** Histone demethylase that specifically demethylates 'Lys-4' of histone H3, thereby playing a central role in histone code. Does not demethylate histone H3 'Lys-9', H3 'Lys-27', H3 'Lys-36', H3 'Lys-79' or H4 'Lys-20'. Demethylates trimethylated and dimethylated but not monomethylated H3 'Lys-4'. May stimulate transcription mediated by nuclear receptors. May be involved in transcriptional regulation of Hox proteins during cell differentiation. May participate in transcriptional repression of cytokines such as CXCL12.

**Sequence similarities** Belongs to the JARID1 histone demethylase family.  
Contains 1 ARID domain.  
Contains 1 JmjC domain.  
Contains 1 JmjN domain.  
Contains 3 PHD-type zinc fingers.

**Domain** The GSGFP motif is required for the interaction with SUZ12.

**Cellular localization** Nucleus > nucleolus. Occupies promoters of genes involved in RNA metabolism and mitochondrial function.

## Images



Western blot - Anti-KDM5A / Jarid1A / RBBP2 antibody [EPR12742] (ab177486)

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

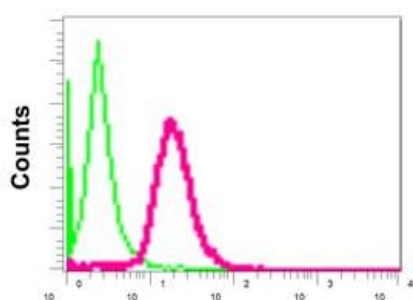
**Lane 2:** KDM5A knockout HAP1 whole cell lysate (20 µg)

**Lane 3:** HeLa whole cell lysate (20 µg)

**Lane 4:** HEK293 whole cell lysate (20 µg)

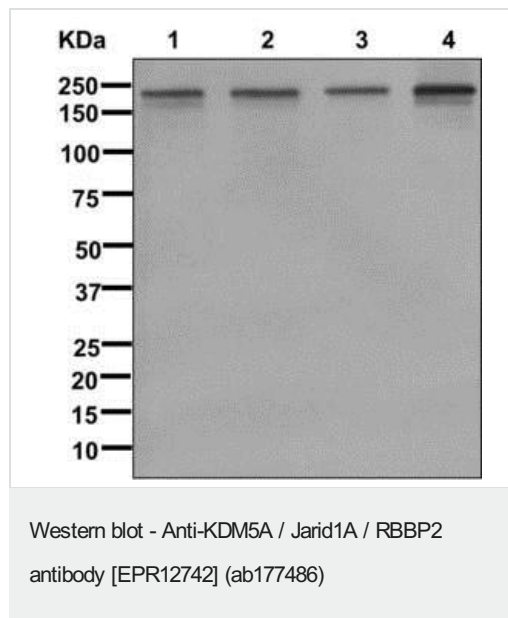
**Lanes 1 - 4:** Merged signal (red and green). Green - ab177486 observed at 240 kDa. Red - loading control, **ab18058**, observed at 130 kDa.

ab177486 was shown to specifically react with KDM5A in wild-type HAP1 cells. No bands were observed when KDM5A knockout samples were used. Wild-type and KDM5A knockout samples were subjected to SDS-PAGE. Ab177486 and **ab18058** (Mouse anti Vinculin loading control) were incubated overnight at 4°C at 1/1000 dilution and 1/10000 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 1/20000 dilution for 1 hour at room temperature before imaging.



Flow Cytometry (Intracellular) - Anti-KDM5A / Jarid1A / RBBP2 antibody [EPR12742] (ab177486)

Intracellular flow cytometric analysis of permeabilized NCCIT cells labeling KDM5A / Jarid1A / RBBP2 with ab177486 at 1/10 dilution (red) or a rabbit IgG (negative) (green).



**All lanes :** Anti-KDM5A / Jarid1A / RBBP2 antibody [EPR12742] (ab177486) at 1/1000 dilution

**Lane 1 :** HeLa cell lysate

**Lane 2 :** 293T cell lysate

**Lane 3 :** MCF7 cell lysate

**Lane 4 :** NCCIT cell lysate

Lysates/proteins at 10 µg per lane.

#### Secondary

**All lanes :** Goat anti-rabbit HRP at 1/2000 dilution

**Predicted band size:** 192 kDa

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

Anti-KDM5A / Jarid1A / RBBP2 antibody [EPR12742] (ab177486)

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

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