

Jarid1b polyclonal antibody
Rabbit Polyclonal Antibody
Catalog # ABV11388**Specification**

Jarid1b polyclonal antibody - Product Information

Application	E, WB
Primary Accession	O9UGL1
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	175658

Jarid1b polyclonal antibody - Additional Information**Gene ID** 10765**Positive Control****Western blot: NIH3T3 and embryonic stem cells, ELISA: Peptides.****Application & Usage****Western Blot: 1:500, ELISA: 1:100 - 1:200.****Other Names**

CT31, PLU1, PUT1, RBBP2H1, RBP2-like

Target/Specificity

Jarid1b

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

In PBS with 0.05% (W/V) sodium azide.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

Jarid1b polyclonal antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Jarid1b polyclonal antibody - Protein Information

Name KDM5B

Synonyms JARID1B, PLU1, RBBP2H1

Function

Histone demethylase that demethylates 'Lys-4' of histone H3, thereby playing a central role in histone code (PubMed: [24952722](http://www.uniprot.org/citations/24952722), PubMed: [27214403](http://www.uniprot.org/citations/27214403), PubMed: [28262558](http://www.uniprot.org/citations/28262558)). Does not demethylate histone H3 'Lys-9' or H3 'Lys-27'. Demethylates trimethylated, dimethylated and monomethylated H3 'Lys-4'. Acts as a transcriptional corepressor for FOXG1B and PAX9. Favors the proliferation of breast cancer cells by repressing tumor suppressor genes such as BRCA1 and HOXA5 (PubMed: [24952722](http://www.uniprot.org/citations/24952722)). In contrast, may act as a tumor suppressor for melanoma. Represses the CLOCK-BMAL1 heterodimer-mediated transcriptional activation of the core clock component PER2 (By similarity).

Cellular Location

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00355, ECO:0000255|PROSITE-ProRule:PRU00537, ECO:0000269|PubMed:10336460, ECO:0000269|PubMed:12237901}

Tissue Location

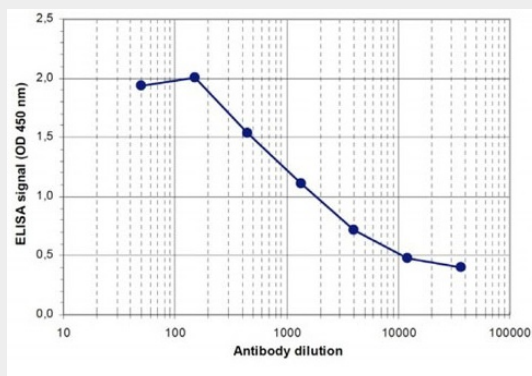
Ubiquitously expressed, with highest levels in testis. Down-regulated in melanoma and glioblastoma. Up-regulated in breast cancer (at protein level).

Jarid1b polyclonal antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

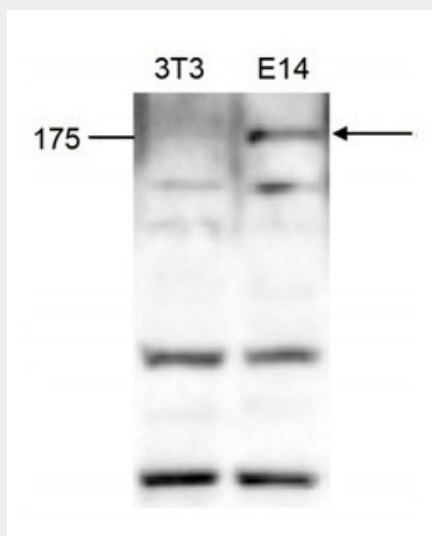
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Jarid1b polyclonal antibody - Images



To determine the titer, an ELISA was performed using a serial dilution of the antibody. The wells

were coated with the peptide used for immunization of the rabbit. By plotting the absorbance against the antibody dilution, the titer of the antibody was estimated to be 1:2,200.



Western blot was performed on whole cell lysates from mouse fibroblasts (NIH3T3) and embryonic stem cells (E14Tg2a) with the antibody diluted 1:500 in BSA/PBS-Tween. The molecular weight marker (in kDa) is shown on the left; the location of the protein of interest (expected size: 179 kDa) is indicated on the right.

Jarid1b polyclonal antibody - Background

JARID1b is a histone demethylase which specifically demethylates mono-, di, and trimethylated lysine 4 of histone H3. It acts as a transcriptional repressor for the tumor suppressor genes BRCA1 and HOXA5 and has been associated with breast cancer development. In contrast, in melanoma JARID1b itself may function as a tumor suppressor.