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JARID1B Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP14476A

Specification

JARID1B Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	Q9UGL1
Other Accession	NP_006609.3
Reactivity	**Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**175658**
Antigen Region	**192-224**

JARID1B Antibody (N-term) - Additional Information

Gene ID 10765

Other Names
Lysine-specific demethylase 5B, 11411-, Cancer/testis antigen 31, CT31, Histone demethylase JARID1B, Jumonji/ARID domain-containing protein 1B, PLU-1, Retinoblastoma-binding protein 2 homolog 1, RBP2-H1, KDM5B, JARID1B, PLU1, RBBP2H1

Target/Specificity
This JARID1B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 192-224 amino acids from the N-terminal region of human JARID1B.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
JARID1B Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

JARID1B Antibody (N-term) - 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, PubMed:27214403, PubMed: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). 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}

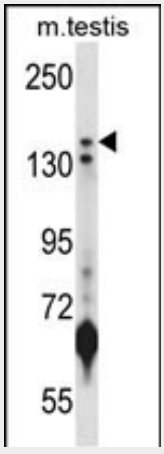
Tissue Location
Ubiquitously expressed, with highest levels in testis. Down-regulated in melanoma and glioblastoma. Up-regulated in breast cancer (at protein level).

JARID1B Antibody (N-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

JARID1B Antibody (N-term) - Images



JARID1B Antibody (N-term) (Cat. #AP14476a) western blot analysis in mouse testis tissue lysates (35ug/lane).This demonstrates the JARID1B antibody detected the JARID1B protein (arrow).

JARID1B Antibody (N-term) - Background

Histone demethylase that demethylates 'Lys-4' of histone H3, thereby playing a central role in

histone code. 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. In contrast, may act as a tumor suppressor for melanoma.

JARID1B Antibody (N-term) - References

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Krishnakumar, R., et al. Mol. Cell 39(5):736-749(2010)
Yao, W., et al. Biochem. Biophys. Res. Commun. 396(2):323-328(2010)
Roesch, A., et al. Cell 141(4):583-594(2010)
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