

## JARID1A Antibody (N-term) Blocking Peptide

Synthetic peptide  
Catalog # BP1192a

### Specification

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## JARID1A Antibody (N-term) Blocking Peptide - Product Information

Primary Accession [P29375](#)

## JARID1A Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 5927

### Other Names

Lysine-specific demethylase 5A, 11411-, Histone demethylase JARID1A, Jumonji/ARID domain-containing protein 1A, Retinoblastoma-binding protein 2, RBBP-2, KDM5A, JARID1A, RBBP2, RBP2

### Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP1192a](/product/products/AP1192a) was selected from the N-term region of human JARID1A. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

### Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

### Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

## JARID1A Antibody (N-term) Blocking Peptide - Protein Information

Name KDM5A ([HGNC:9886](#))

### 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'. Regulates specific gene transcription through DNA-binding on 5'-CCGCCC-3' motif (PubMed: [18270511](http://www.uniprot.org/citations/18270511)). May stimulate transcription mediated by nuclear receptors. Involved in transcriptional regulation of Hox proteins during cell differentiation (PubMed: [19430464](http://www.uniprot.org/citations/19430464)). May participate in transcriptional repression of cytokines such as CXCL12. Plays a role in the regulation of the circadian rhythm and in maintaining the normal periodicity of the circadian clock. In a histone demethylase-independent manner, acts as a

coactivator of the CLOCK-BMAL1-mediated transcriptional activation of PER1/2 and other clock-controlled genes and increases histone acetylation at PER1/2 promoters by inhibiting the activity of HDAC1 (By similarity). Seems to act as a transcriptional corepressor for some genes such as MT1F and to favor the proliferation of cancer cells (PubMed:<a href="http://www.uniprot.org/citations/27427228" target="\_blank">27427228</a>).

#### Cellular Location

Nucleus, nucleolus. Nucleus {ECO:0000250|UniProtKB:Q3UXZ9} Note=Occupies promoters of genes involved in RNA metabolism and mitochondrial function. {ECO:0000250|UniProtKB:Q3UXZ9}

### JARID1A Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

### JARID1A Antibody (N-term) Blocking Peptide - Images

### JARID1A Antibody (N-term) Blocking Peptide - Background

The protein encoded by this gene is a ubiquitously expressed nuclear protein. It binds directly, with several other proteins, to retinoblastoma protein which regulates cell proliferation. This protein also interacts with rhombotin-2 which functions distinctly in erythropoiesis and in T-cell leukemogenesis. Rhombotin-2 is thought to either directly affect the activity of the encoded protein or may indirectly modulate the functions of the retinoblastoma protein by binding to this protein.

### JARID1A Antibody (N-term) Blocking Peptide - References

Mao, S., et al., Oncogene 14(13):1531-1539 (1997).Baens, M., et al., Genomics 29(1):44-52 (1995).Fattaey, A.R., et al., Oncogene 8(11):3149-3156 (1993).Defeo-Jones, D., et al., Nature 352(6332):251-254 (1991).