

**JARID2 Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO2206a****Specification****JARID2 Antibody - Product Information**

Application	E, WB, IF, FC
Primary Accession	<a href="#">O92833</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Calculated MW	139kDa KDa

**Description**

This gene encodes a Jumonji- and AT-rich interaction domain (ARID)-domain-containing protein. The encoded protein is a DNA-binding protein that functions as a transcriptional repressor. This protein interacts with the Polycomb repressive complex 2 (PRC2) which plays an essential role in regulating gene expression during embryonic development. This protein facilitates the recruitment of the PRC2 complex to target genes. Alternate splicing results in multiple transcript variants. Mutations in this gene are associated with chronic myeloid malignancies.

**Immunogen**

Purified recombinant fragment of human JARID2 (AA: 1097-1246) expressed in E. Coli.

**Formulation**

Purified antibody in PBS with 0.05% sodium azide

**JARID2 Antibody - Additional Information**

**Gene ID** 3720

**Other Names**

Protein Jumonji, Jumonji/ARID domain-containing protein 2, JARID2, JMJ

**Dilution**

E~~1/10000  
WB~~1/500 - 1/2000  
IF~~1/200 - 1/1000  
FC~~1/200 - 1/400

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

JARID2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**JARID2 Antibody - Protein Information**

**Name** JARID2

**Synonyms** JMJ

**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 (PubMed:<a href="http://www.uniprot.org/citations/20075857" target="\_blank">20075857</a>). Acts as an accessory subunit for the core PRC2 (Polycomb repressive complex 2) complex, which mediates histone H3K27 (H3K27me3) trimethylation on chromatin (PubMed:<a href="http://www.uniprot.org/citations/20075857" target="\_blank">20075857</a>, PubMed:<a href="http://www.uniprot.org/citations/29499137" target="\_blank">29499137</a>, PubMed:<a href="http://www.uniprot.org/citations/31959557" target="\_blank">31959557</a>). Binds DNA and mediates the recruitment of the PRC2 complex to target genes in embryonic stem cells, thereby playing a key role in stem cell differentiation and normal embryonic development (PubMed:<a href="http://www.uniprot.org/citations/20075857" target="\_blank">20075857</a>). 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 (By similarity). Also acts as a transcriptional repressor of ANF via its interaction with GATA4 and NKX2-5 (By similarity). Participates in the negative regulation of cell proliferation signaling (By similarity). Does not have histone demethylase activity (By similarity).

**Cellular Location**

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00355, ECO:0000255|PROSITE-ProRule:PRU00537, ECO:0000269|PubMed:20075857, ECO:0000269|PubMed:29499137}. Note=Colocalizes with the PRC2 complex on chromatin.

**Tissue Location**

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

**JARID2 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](#)