

JARID2 Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF3043a**Specification**

JARID2 Antibody (internal region) - Product Information

Application	E
Primary Accession	O92833
Other Accession	NP_004964.2 , 3720 , 16468 (mouse)
Predicted	Human, Mouse, Rat, Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	138734

JARID2 Antibody (internal region) - Additional Information**Gene ID** 3720**Other Names**

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

Dilution

E~~N/A

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

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 (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

JARID2 Antibody (internal region) - 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:

target="_blank">20075857). Acts as an accessory subunit for the core PRC2 (Polycomb repressive complex 2) complex, which mediates histone H3K27 (H3K27me3) trimethylation on chromatin (PubMed:20075857, PubMed:29499137, PubMed:31959557). 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:20075857). 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 (internal region) - 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](#)

JARID2 Antibody (internal region) - Images

JARID2 Antibody (internal region) - References

Induction by left ventricular overload and left ventricular failure of the human Jumonji gene (JARID2) encoding a protein that regulates transcription and reexpression of a protective fetal program. Bovill E, Westaby S, Reji S, Sayeed R, Crisp A, Shaw T. The Journal of thoracic and cardiovascular surgery 2008 Sep 136 (3): 709-16. PMID: 18805276