

Product datasheet for **TA342348**

JARID2 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-Jarid2 antibody: synthetic peptide directed towards the middle region of mouse Jarid2. Synthetic peptide located within the following region: NASSSCQSTPRKKGKTHKHVHNGHVFNFGSSRSAREKEPAHKHRSKEATPGK
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	137 kDa
Gene Name:	jumonji and AT-rich interaction domain containing 2
Database Link:	NP_004964 Entrez Gene 16468 Mouse Q92833



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Background:

Jarid2 is a regulator of histone methyltransferase complexes that plays an essential role in embryonic development, including heart and liver development, neural tube fusion process and hematopoiesis. Jarid2 acts by modulating histone methyltransferase activity and promoting the recruitment of histone methyltransferase complexes to their target genes. Jarid2 binds DNA and mediates the recruitment of the PRC2 complex to target genes in embryonic stem cells. Jarid2 does not have histone demethylase activity but regulates activity of various histone methyltransferase complexes. In embryonic stem cells, it associates with the PRC2 complex and inhibits trimethylation of 'Lys-27' of histone H3 (H3K27me3) by the PRC2 complex, thereby playing a key role in differentiation of embryonic stem cells and normal development. 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. Jarid2 also acts as a transcriptional repressor of ANF via its interaction with GATA4 and NKX2-5. Jarid2 participates in the negative regulation of cell proliferation signaling.

Synonyms:

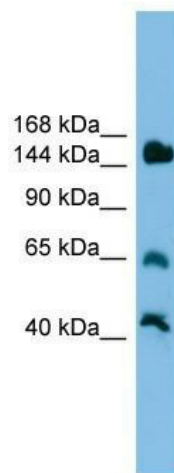
JMJ

Note:

Immunogen Sequence Homology: Mouse: 100%; Dog: 79%; Pig: 79%; Rat: 79%; Human: 79%; Rabbit: 79%; Guinea pig: 79%

Protein Families:

Transcription Factors

Product images:

WB Suggested Anti-Jarid2 Antibody Titration: 0.2-1 ug/ml; ELISA Titer: 1:1562500; Positive Control: Mouse Liver