

Protein Jumonji Rabbit mAb

Catalog # AP78071

Product Information

Application	WB, IF, ICC
Primary Accession	Q92833
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Immunogen	A synthesized peptide derived from human Jarid2
Purification	Affinity Chromatography
Calculated MW	138734

Additional Information

Gene ID	3720
Other Names	JARID2
Dilution	WB~~1/500-1/1000 IF~~1:50~200 ICC~~N/A
Format	Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

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: 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).

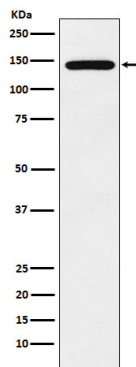
Cellular Location

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

Images



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