

Datasheet for ABIN7563961
JARID2 Protein (AA 1-1234) (His tag)



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Overview

Quantity:	1 mg
Target:	JARID2
Protein Characteristics:	AA 1-1234
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This JARID2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Jarid2 Protein expressed in mammalien cells.
Sequence:	MSKERPKRNI IQKKYDDSDG IPWSEERVVR KVLVLSLKEF KNAQKRQHGE GLAGSLKAVN GLLGNAQAKA LGPASEQSEN EKDDASQVSS TSNDVSSSDF EEGPSRKRPR LQAQRKFAQS QPNSPSTTPV KIVEPLLPPP ATQISDLSKR KPKTEDFLTF LCLRGSPALP NSMVYFGSSQ DEEDVEEEDD ETEDVKATTN NASSSCQSTP RKGKTHKHVH NGHVFNGSSR SAREKEPAHK HRSKEATPGK EKHSEPRADS RREQASGAQP TAASAAASSA KGLAANHQPP PSHRSAQDLR KQVSKVNGVT RMSSLGAGTN SAKKIREVRP SPSKTVKYTA TVTKGTVTYT KAKRELVKET KPNHHKPSSA VNHTISGKTE SSNAKTRKQV LSLGGASKST GPAASGLKAS SRLNPKSCTK EVGGRQLREG LRNSKRRLEE AQQVDKPQSP PCKMKGVAGN AEAPGKKASA ASGEKSLING HVKKEVPERS LERNRPKRAA AGKNMLGKQA HGKTEGTPCE NRSTSQPESSE HKPHDPQGKP EKSGSGSGWA AMDEIPVLRP SAKEFHDPLI YIESVRAQVE KYGMCRVIPP PDWRPECKLN DEMRFVTQIQ HIHKLGRRWG PNVQLACIK KHLRSQGITM DELPLIGGCE LDLACFFRLI

NEMGGMQQVT DLKKWNLAD MLRIPKTAQD RLAKLQEAYC QYLLSYDSLS PEEHRRLEKE
VLMEKEILEK RKGPLEGHTS SDHHKFHSLP RFEPKNGLVH GVTPRNGFRS KLKEVGRAPL
KTGRRRLFAQ EKEVVKEEEE DKGVLNDFHK CIYKGRSVSL TTFYRTARNI MNMCFKSKEPA
PAEIEQEYWR LVEEKDCHVA VHCCKVDTNT HGSGFPVGKS EPFSRHGWNL TVLPNNTGSI
LRHLGAVPGV TIPWLNIGMV FSTSCWSRDQ NHLPYIDYLH TGADCIWYCI PAEEENKLED
VVHTLLQGNG TPGLQMLESN VMISPEVLCK KGIVHRTVQ QSGQFVVCFP GSFVSKVCCG
YNVSETVHFA TTQWTSMGFE TAKEMKRRHI AKPFSMEKLL YQIAQAEAKK ENGPTLSTIS
ALLDELDRTE LRQRLLFEA GLHSSARYGS HDGNSTVADG KKKPRKWQL ETSEKRCQIC
QHLCYLSMVV QENENVVFL ECALRHVEKQ KSCRGLKLMY RYDEEQIISL VNQICGKVSG
KHGGIENCLN KPTPKRGPRK RATVDVPPSR LPSS

Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

JARID2

Alternative Name:

Jarid2 ([JARID2 Products](#))

Target Details

Background: Protein Jumonji (Jumonji/ARID domain-containing protein 2),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:10807864, PubMed:12852854, PubMed:12890668, PubMed:15542826, PubMed:15870077, PubMed:19010785, PubMed:20064375, PubMed:20064376, 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:20064376, PubMed:20064375). 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:20064375, 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 (PubMed:12852854, PubMed:12890668, PubMed:19010785). Also acts as a transcriptional repressor of ANF via its interaction with GATA4 and NKX2-5 (PubMed:15542826). Participates in the negative regulation of cell proliferation signaling (PubMed:10913339). Does not have histone demethylase activity (PubMed:20064376). {ECO:0000269|PubMed:10807864, ECO:0000269|PubMed:10913339, ECO:0000269|PubMed:12852854, ECO:0000269|PubMed:12890668, ECO:0000269|PubMed:15542826, ECO:0000269|PubMed:15870077, ECO:0000269|PubMed:19010785, ECO:0000269|PubMed:20064375, ECO:0000269|PubMed:20064376, ECO:0000269|PubMed:20075857}.

Molecular Weight: 137.4 kDa

UniProt: [Q62315](#)

Pathways: [Chromatin Binding](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Handling

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months