



Rabbit Anti-Jarid2 antibody

SL11860R

Product Name:	Jarid2
Chinese Name:	组蛋白去甲基化酶JARID2抗体
Alias:	Jumonji; JARD2; JARD2_HUMAN; JARID2; JMJ; Jumonji AT rich interactive domain 2; Jumonji protein ; Jumonji/ARID domain containing protein 2; Jumonji/ARID domain-containing protein 2 ; Protein Jumonji.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	139kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Jarid2/Jumonji:301-400/1246
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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. [provided by RefSeq, May 2012]

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. Acts by modulating histone methyltransferase activity and promoting the recruitment of histone methyltransferase complexes to their target genes. Binds DNA and mediates the recruitment of the PRC2 complex to target genes in embryonic stem cells. 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. Also acts as a transcriptional repressor of ANF via its interaction with GATA4 and NKX2-5. Participates in the negative regulation of cell proliferation signaling.

Subunit:

Associates with a histone methyltransferase complex containing GLP1/EHMT1 and G9a/EHMT2. Interacts with SUZ12; the interaction is direct. Interacts with GATA4 (via the N-terminal region). Interacts with NKX2-5 (via the C-terminal region). Interacts with RB1. Interacts with ZNF496 (By similarity). Associates with the PRC2 complex, which includes EED, EZH1, EZH2, SUZ12, RBBP4 and AEBP2; JARID2 is probably not a core component of the PRC2 complex and associates to PRC2 via its interaction with SUZ12.

Subcellular Location:

Nucleus. Colocalizes with the PRC2 complex on chromatin.

Tissue Specificity:

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

Similarity:

Contains 1 ARID domain.

Contains 1 JmjC domain.

Contains 1 JmjN domain.

SWISS:

Q92833

Gene ID:

3720

Database links:

[Entrez Gene: 3720](#) Human

[Entrez Gene: 16468](#) Mouse

[Omim: 601594](#) Human

[SwissProt: Q92833](#) Human

[SwissProt: Q62315](#) Mouse

[Unigene: 269059](#) Human

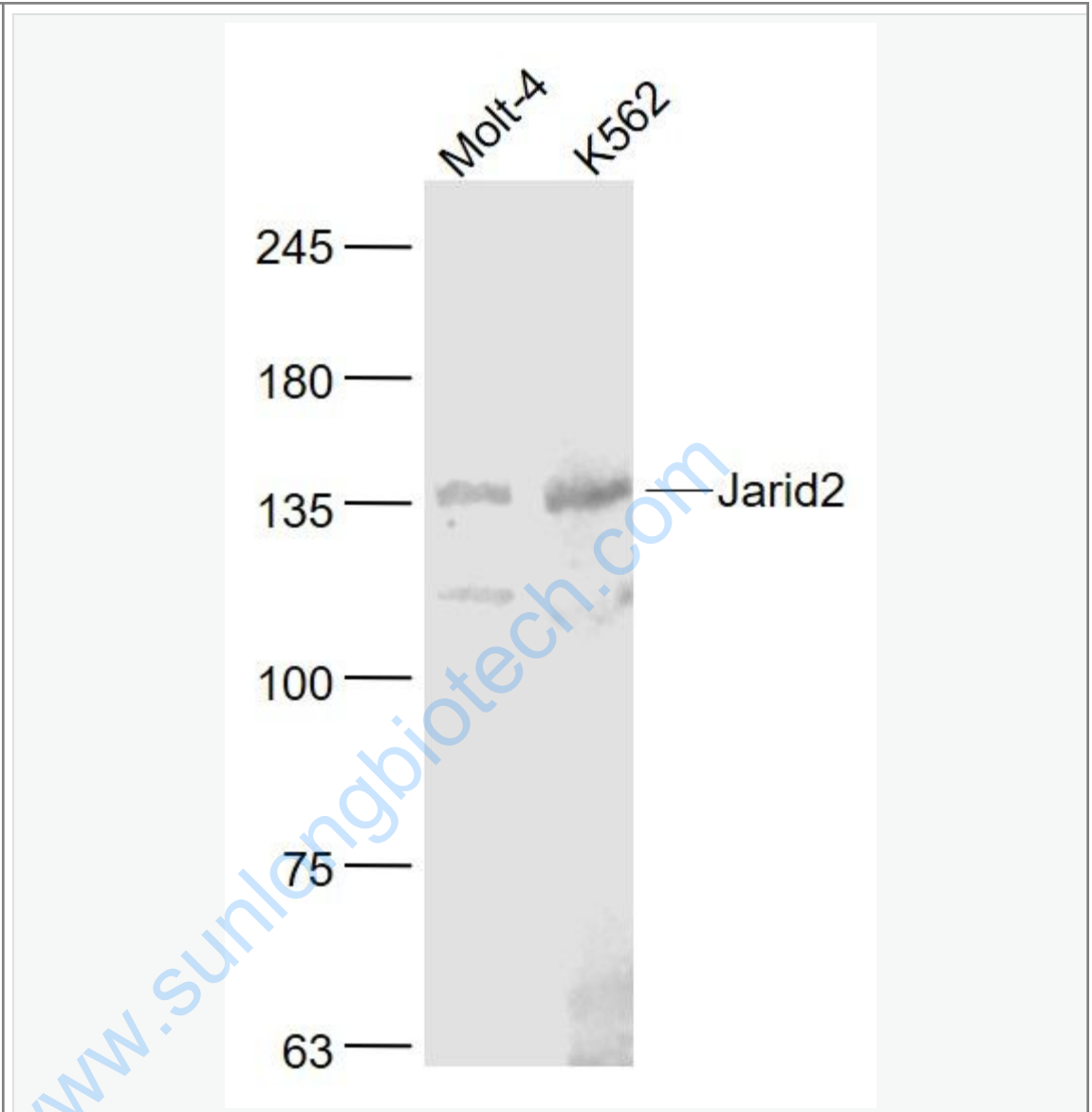
[Unigene: 25059](#) Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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Picture:



Sample:

Molt-4(Human) Cell Lysate at 30 ug

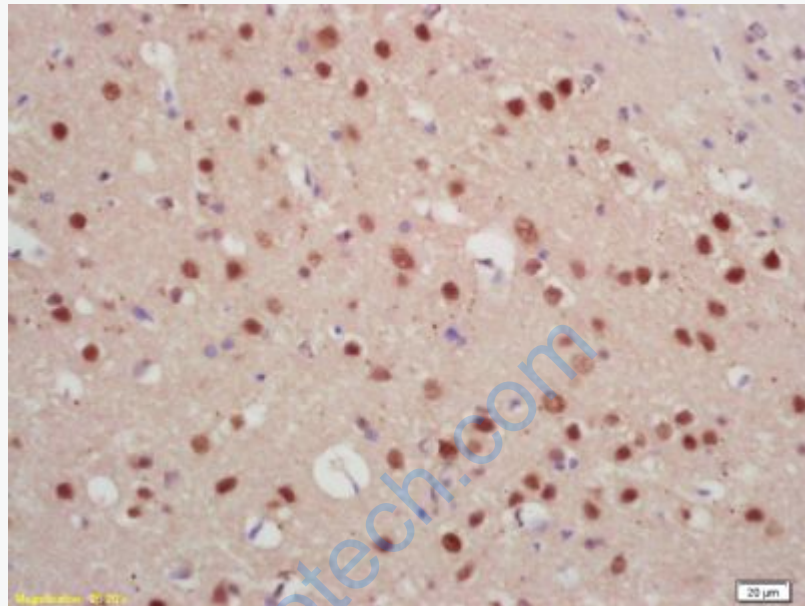
K562(Human) Cell Lysate at 30 ug

Primary: Anti- Jarid2 (SL11860R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 139 kD

Observed band size: 139 kD



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-Jarid2/Jumonji Polyclonal Antibody, Unconjugated(SL11860R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining