

ARG59272 anti-KDM5B / Jarid1B antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes KDM5B / Jarid1B
Tested Reactivity	Hu, Ms, Rat, Mk
Predict Reactivity	Bov, Dog, Hm, Hrs, Rb
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	KDM5B / Jarid1B
Species	Human
Immunogen	Synthetic peptide corresponding to aa. 641-685 of Human KDM5B / Jarid1B. (DVLDDVVASTVQKDMAIMIEDEKALRETVRKLGVISERMDPELL)
Conjugation	Un-conjugated
Alternate Names	PPP1R98; Histone demethylase JARID1B; PUT1; RBBP2H1A; Cancer/testis antigen 31; Jumonji/ARID domain-containing protein 1B; Retinoblastoma-binding protein 2 homolog 1; PLU-1; PLU1; RBP2-H1; CT31; EC 1.14.11.-; Lysine-specific demethylase 5B; JARID1B

Application Instructions

Application table	Application	Dilution
	FACS	1:150 - 1:500
	ICC/IF	1:200 - 1:1000
	IHC-P	1:200 - 1:1000
	WB	0.1 - 0.5 µg/ml
Application Note	IHC-P: Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

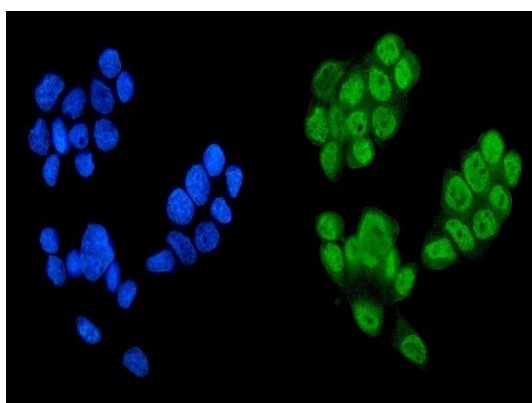
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na ₂ HPO ₄ and 4% Trehalose.
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

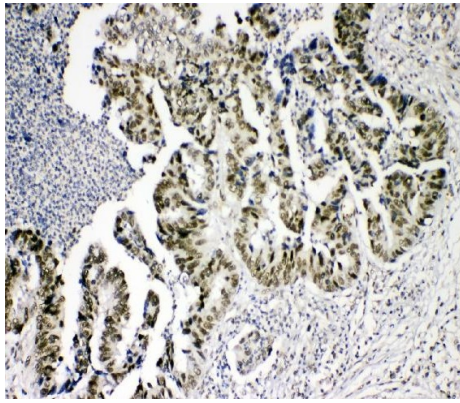
Gene Symbol	KDM5B
Gene Full Name	lysine (K)-specific demethylase 5B
Background	This gene encodes a lysine-specific histone demethylase that belongs to the jumonji/ARID domain-containing family of histone demethylases. The encoded protein is capable of demethylating tri-, di- and monomethylated lysine 4 of histone H3. This protein plays a role in the transcriptional repression or certain tumor suppressor genes and is upregulated in certain cancer cells. This protein may also play a role in genome stability and DNA repair. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]
Function	Histone demethylase that demethylates 'Lys-4' of histone H3, thereby playing a central role in histone code. Does not demethylate histone H3 'Lys-9' or H3 'Lys-27'. Demethylates trimethylated, dimethylated and monomethylated H3 'Lys-4'. Acts as a transcriptional corepressor for FOXG1B and PAX9. Favors the proliferation of breast cancer cells by repressing tumor suppressor genes such as BRCA1 and HOXA5. In contrast, may act as a tumor suppressor for melanoma. Represses the CLOCK-ARNTL/BMAL1 heterodimer-mediated transcriptional activation of the core clock component PER2 (By similarity). [UniProt]
Highlight	Related products: KDM5B antibodies ; Anti-Rabbit IgG secondary antibodies ; Related news: Hypoxia-induced transcription, histone demethylases are involved
Calculated Mw	176 kDa
Cellular Localization	Nucleus. [UniProt]

Images



ARG59272 anti-KDM5B / Jarid1B antibody ICC/IF image

Immunofluorescence: MCF-7 cells were blocked with 10% goat serum and then stained with ARG59272 anti-KDM5B / Jarid1B antibody (green) at 2 µg/ml dilution, overnight at 4°C. DAPI (blue) for nuclear staining.



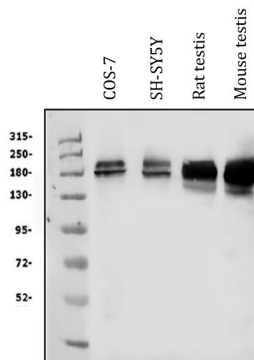
ARG59272 anti-KDM5B / Jarid1B antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human intestinal cancer tissue. Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG59272 anti-KDM5B / Jarid1B antibody at 1 µg/ml dilution, overnight at 4°C.



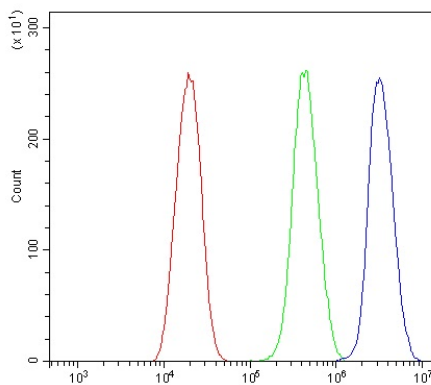
ARG59272 anti-KDM5B / Jarid1B antibody WB image

Western blot: Rat testis, Mouse testis and HepG2 whole cell lysates stained with ARG59272 anti-KDM5B / Jarid1B antibody at 0.5 µg/ml dilution.



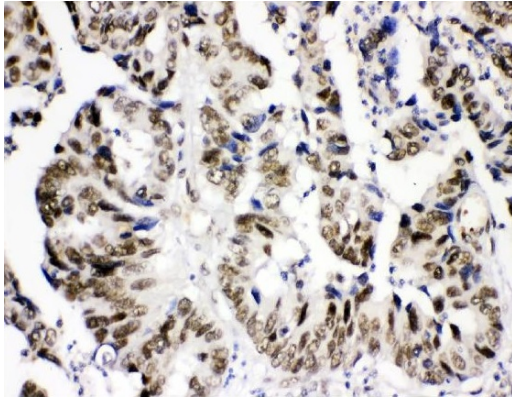
ARG59272 anti-KDM5B / Jarid1B antibody WB image

Western blot: 50 µg of sample under reducing conditions. COS-7, SH-SY5Y, Rat testis and Mouse testis lysates stained with ARG59272 anti-KDM5B / Jarid1B antibody at 0.5 µg/ml dilution, overnight at 4°C.



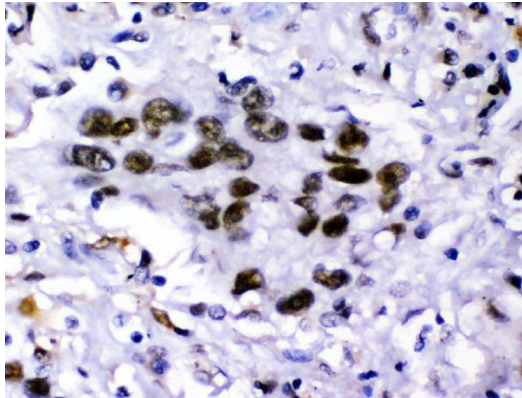
ARG59272 anti-KDM5B / Jarid1B antibody FACS image

Flow Cytometry: U2OS cells were blocked with 10% normal goat serum and then stained with ARG59272 anti-KDM5B / Jarid1B antibody (blue) at 1 µg/10⁶ cells for 30 min at 20°C, followed by incubation with DyLight[®]488 labelled secondary antibody. Isotype control antibody (green) was rabbit IgG (1 µg/10⁶ cells) used under the same conditions. Unlabelled sample (red) was also used as a control.



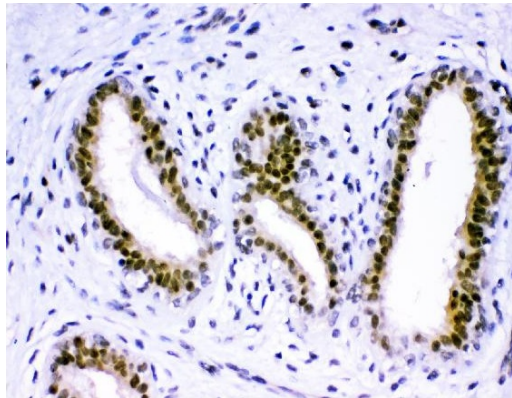
ARG59272 anti-KDM5B / Jarid1B antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human intestinal cancer tissue. Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG59272 anti-KDM5B / Jarid1B antibody at 1 $\mu\text{g}/\text{ml}$ dilution, overnight at 4°C.



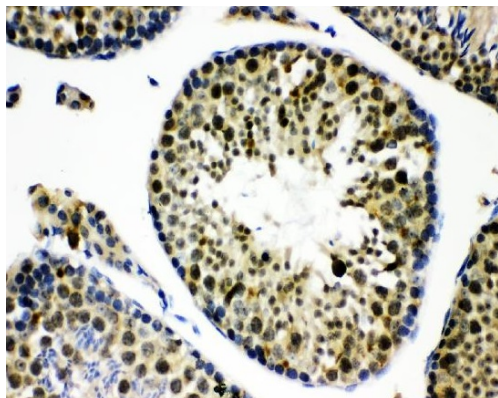
ARG59272 anti-KDM5B / Jarid1B antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human lung cancer tissue. Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG59272 anti-KDM5B / Jarid1B antibody at 1 $\mu\text{g}/\text{ml}$ dilution, overnight at 4°C.



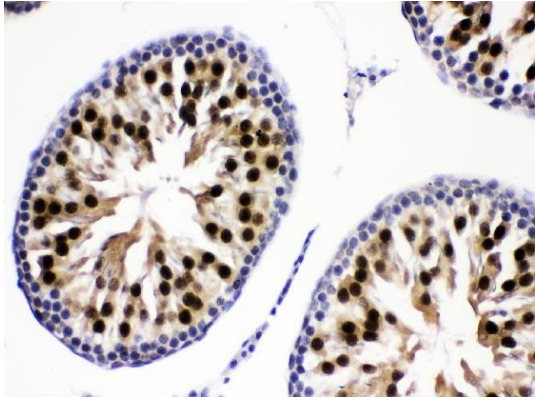
ARG59272 anti-KDM5B / Jarid1B antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human breast cancer tissue. Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG59272 anti-KDM5B / Jarid1B antibody at 1 $\mu\text{g}/\text{ml}$ dilution, overnight at 4°C.



ARG59272 anti-KDM5B / Jarid1B antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse testis tissue. Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG59272 anti-KDM5B / Jarid1B antibody at 1 $\mu\text{g}/\text{ml}$ dilution, overnight at 4°C.



ARG59272 anti-KDM5B / Jarid1B antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat testis tissue.
Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG59272 anti-KDM5B / Jarid1B antibody at 1 µg/ml dilution, overnight at 4°C.