

Datasheet for ABIN4886648
anti-KDM5B antibody (Middle Region)



[Go to Product page](#)

1 Image

Overview

Quantity:	100 µg
Target:	KDM5B
Binding Specificity:	AA 641-685, Middle Region
Reactivity:	Human, Mouse, Rat, Monkey
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KDM5B antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Flow Cytometry (FACS), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Purpose:	Anti-KDM5B/PLU1/Jarid1B Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human KDM5B, identical to the related mouse and rat sequences.
Sequence:	DVLDDVVAST VQKDMAIMIE DEKALRETVR KLGVIDSERM DFE
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-KDM5B/PLU1/Jarid1B Antibody Picoband® (ABIN4886648). Tested in Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human, Monkey, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-

Product Details

performing antibodies are designated as Picoband, ensuring unmatched performance.

Purification: Immunogen affinity purified.

Target Details

Target: KDM5B

Alternative Name: KDM5B ([KDM5B Products](#))

Background: Synonyms: Lysine-specific demethylase 5B,1.14.11.-,Cancer/testis antigen 31,CT31,Histone demethylase JARID1B,Jumonji/ARID domain-containing protein 1B,PLU-1,Retinoblastoma-binding protein 2 homolog 1,RBP2-H1,KDM5B,JARID1B, PLU1, RBBP2H1,
Tissue Specificity: Ubiquitously expressed, with highest levels in testis. Down-regulated in melanoma and glioblastoma. Up-regulated in breast cancer (at protein level).
Background: Lysine-specific demethylase 5B, also known as histone demethylase JARID1B, is a demethylase enzyme that in humans is encoded by the KDM5B gene. 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.

Molecular Weight: 180 kDa

Gene ID: 10765

Pathways: [Warburg Effect](#)

Application Details

Application Notes: Western blot, 0.1-0.5 µg/mL, Human, Mouse, Rat, Monkey
Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human, Mouse, Rat
Immunocytochemistry/Immunofluorescence, 2 µg/mL, Human
Flow Cytometry (Fixed), 1-3 µg/1×10⁶ cells, Human
1. Lahoud MH, Ristevski S, Venter DJ, Jermini LS, Bertoncello I, Zavarsek S, Hasthorpe S, Drago J, de Kretser D, Hertzog PJ, Kola I (August 2001). "Gene targeting of Desrt, a novel ARID class DNA-binding protein, causes growth retardation and abnormal development of reproductive organs". Genome Research 11(8): 1327-34. 2. Zhu L, Hu J, Lin D, Whitson R, Itakura K, Chen Y (August 2001). "Dynamics of the Mrf-2 DNA-binding domain free and in complex with DNA".

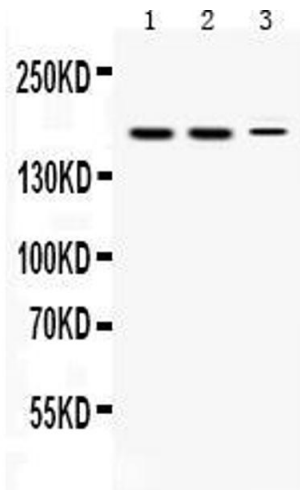
Application Details

	Biochemistry 40 (31): 9142-50.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na ₂ HPO ₄ .
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Images



Western Blotting

Image 1. Western blot analysis of KDM5B expression in rat testis extract (Lane 1), mouse testis extract (Lane 2) and HEPG2 whole cell lysates (Lane 3). KDM5B at 175KD was detected using rabbit anti- KDM5B Antigen Affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).