

Anti-KDM5B Picoband Antibody

Catalog # ABO11691

Product Information

Application	WB
Primary Accession	Q9UGL1
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Lysine-specific demethylase 5B(KDM5B) detection. Tested with WB in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	10765
Other Names	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
Calculated MW	175658
Application Details	Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat
Subcellular Localization	Nucleus .
Tissue Specificity	Ubiquitously expressed, with highest levels in testis. Down-regulated in melanoma and glioblastoma. Up-regulated in breast cancer (at protein level). .
Source	Eukaryota
Protein Name	Lysine-specific demethylase 5B
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human KDM5B (641-685aa DVLDVVVASTVQKDMAIMIEDEKALRETVRKLGVIDSERMDFE LL), identical to the related mouse and rat sequences.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins.

Storage At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

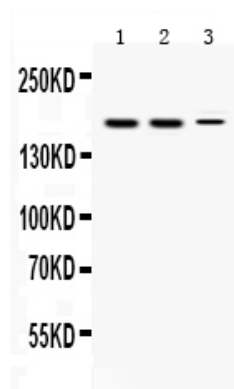
Protein Information

Name	KDM5B
Synonyms	JARID1B, PLU1, RBBP2H1
Function	Histone demethylase that demethylates 'Lys-4' of histone H3, thereby playing a central role in histone code (PubMed: 24952722 , PubMed: 27214403 , PubMed: 28262558). 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 (PubMed: 24952722). In contrast, may act as a tumor suppressor for melanoma. Represses the CLOCK-BMAL1 heterodimer-mediated transcriptional activation of the core clock component PER2 (By similarity).
Cellular Location	Nucleus {ECO:0000255 PROSITE-ProRule:PRU00355, ECO:0000255 PROSITE-ProRule:PRU00537, ECO:0000269 PubMed:10336460, ECO:0000269 PubMed:12237901}
Tissue Location	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 of 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.

Images



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 # ABO11691) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.