

Product datasheet for **TA336866**

KDM5B Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	FC, ICC/IF, IHC, WB
Recommended Dilution:	Western Blot, Flow Cytometry, Immunohistochemistry: 1:200, Immunocytochemistry/ Immunofluorescence: 1:100, Immunohistochemistry-Paraffin: 1:200
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	A synthetic peptide made to an internal portion of the human JARID1B protein (between residues 800-850) [UniProt Q9UGL1]
Formulation:	PBS with 30% Glycerol, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	lysine demethylase 5B
Database Link:	NP_006609 Entrez Gene 10765 Human Q9UGL1



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Background:

Jumonji AT-rich interactive domain 1B (JARID1B) also known as Jumonji/ARID domain-containing protein 1B, Lysine-specific demethylase 5B (KDM5B), Cancer/testis antigen 31 (CT31), Histone demethylase JARID1B, PLU-1, and Retinoblastoma-binding protein 2 homolog 1 (RBP2-H1), is a member of the JARID 1 family. The JARID 1 proteins (JARID1A, JARID1B, JARID1C and JARID1D) catalyze the demethylation of histones on lysine, and JARID1B specifically demethylates lysine 4 on Histone H3. JARID1B functions as a transcriptional co-repressor for FOXG1B and PAX9. In addition, JARID1B may play a considerable role in cancer research as it assists in the propagation of breast cancer cells by repressing the tumor suppressor genes BRCA1 and HOXA5. Conversely, JARID1B acts as a direct suppressor of melanoma. As result, the JARID1B protein is up regulated in breast cancer and down regulated in melanoma and glioblastomas. In general, JARID1B expression is ubiquitous; with the highest expression seen in testis. JARID1B is subject to post translational phosphorylation and has two known isoforms; isoform 1: 175.6kDa and isoform 2: 179.4kDa.

Synonyms:

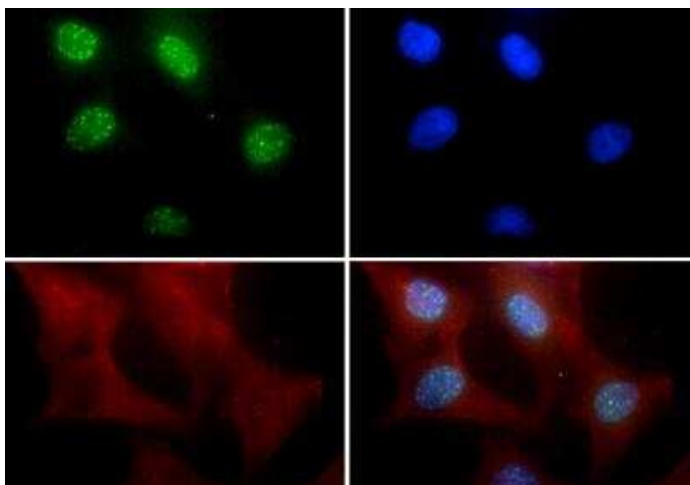
CT31; JARID1B; PLU-1; PLU1; PPP1R98; PUT1; RBBP2H1A

Note:

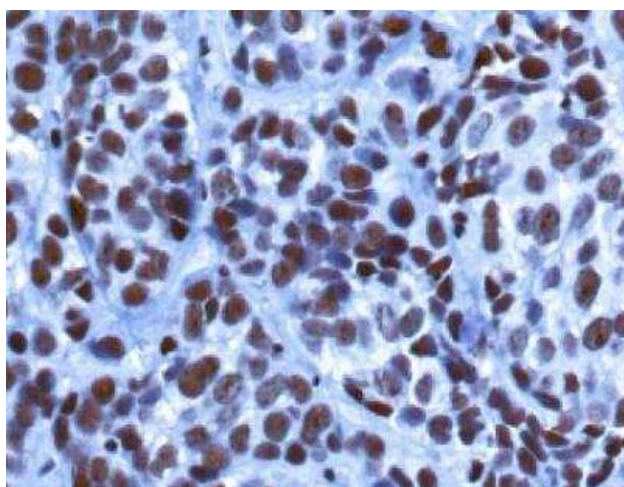
This JARID1B antibody is useful for Flow Cytometry, Immunocytochemistry and paraffin embedded sections. In ICC/IF, staining of the nucleus was seen in HeLa cells. In paraffin, nuclear staining was observed in human breast cancer xenograft. Prior to immunostaining paraffin tissues, antigen retrieval with sodium citrate buffer (pH 6.0) is recommended. Use in western blot reported in scientific literature (PMID 23354547)

Protein Families:

Druggable Genome, Transcription Factors

Product images:

Immunocytochemistry/Immunofluorescence:
JARID1B Antibody TA336866 - Jarid1B / KDM5B
antibody was tested in HeLa cells with FITC
(green). Nuclei and alpha-tubulin were
counterstained with DAPI (blue) and Dylight 550
(red).



Immunohistochemistry: JARID1B Antibody TA336866 - IHC analysis of JARID1B in human breast cancer xenograft using DAB with hematoxylin counterstain.