

JARID1B/KDM5B recombinant protein

Recombinant JARID1B/KDM5B protein

CATALOG # AAA59680	HOST Baculovirus
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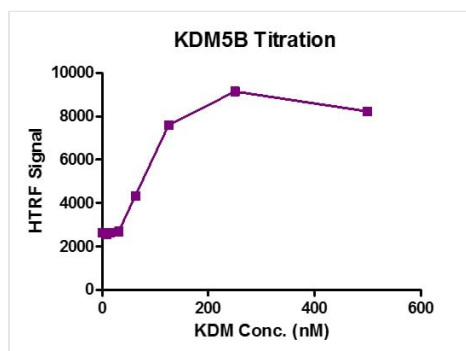
PRODUCT SYNONYMS

JARID1B/KDM5B; Recombinant JARID1B/KDM5B protein; Lysine Demethylase 5B; Cancer/Testis Antigen 31; Retinoblastoma-Binding Protein 2 Homolog 1; Histone Demethylase JARID1B; JARID1B/KDM5B recombinant protein

PRODUCT SPECIFICATIONS

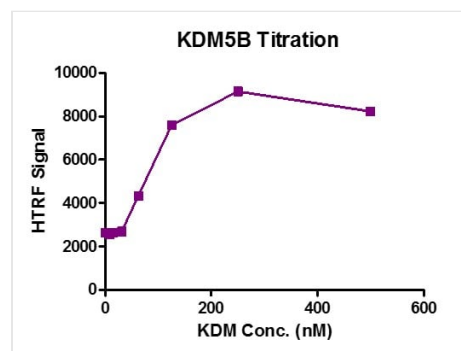
Host	Baculovirus
Purity/Purification	The recombinant protein is >75% pure by SDS-PAGE.
Form/Format	Full length recombinant JARID1B/KDM5B protein expressed in Sf9 cells and supplied in 25mM HEPES pH7.5, 300mM NaCl, 10% glycerol, and 0.5mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag
Notes	Recombinant JARID1B/KDM5B is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. Histone Demethylase Assay Conditions: 1uM H3K4me3 peptide was incubated with different concentrations of JARID1B/KDM5B protein in 10ul reaction system containing 50mM HEPES-NaOH pH 7.5, 1mM TCEP, 100uM 2-OG, 100uM Ascorbate and 50uM (NH4)2Fe(SO4)2·6H2O for 1 hour, then 10ul anti-H3K4me2 antibody and SA-XL665 mixture (each 1:100 dilution in HTRF Detection Buffer) was added to each reaction system and incubated for 30 min. All the operations and reactions were performed at room temperature. HTRF assay was used for detection.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice

IMAGES



Application Data

Recombinant JARID1B / KDM5B protein activity assay. 1 ?M H3K4me3 peptide was incubated with different concentrations of JARID1B / KDM5B protein in 10 ?l reaction system, then 10 ?l anti-H3K4me2 antibody and SA-XL665 mixture (each 1:100 dilution in HTRF Detection Buffer) was added to each reaction system and incubated for 30 min. All the operations and reactions were performed at room temperature. HTRF assay was used for detection.



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SDS-PAGE

Recombinant JARID1B / KDM5B protein gel. JARID1B / KDM5B protein was run on an 8% SDS-PAGE gel and stained with Coomassie blue. MW: 179.9 kDa Purity: > 70%

ADDITIONAL INFORMATION

Related Product Information for JARID1B/KDM5B recombinant protein

Short Description: Recombinant JARID1B/KDM5B (accession number NP_006609) was expressed in Sf9 and contains an N-terminal DYKDDDDK tag with a molecular weight of 179.9 kDa. Lysine (K)-specific demethylase 5B (KDM5B), also known as Jumonji, AT rich interactive domain 1B (JARID1B), is a histone demethylase that specifically demethylates lysine 4 of histone H3 (H3K4), thereby playing a central role in defining the histone code. KDM5B demethylates trimethylated, dimethylated and monomethylated H3K4. It does not demethylate histone H3K9 or H3K27. KDM5B functions as a transcriptional corepressor for FOXG1B and PAX9/PAX9. KDM5B induces the proliferation of breast cancer cells by repressing tumor suppressor genes such as BRCA1 and HOXA5. In contrast, it may act as a tumor suppressor for melanoma. Recombinant JARID1B/KDM5B can be used for enzyme kinetics and inhibitor screening studies.

Background: Lysine (K)-specific demethylase 5B (KDM5B), also known as Jumonji, AT rich interactive domain 1B (JARID1B), is a histone demethylase that specifically demethylates lysine 4 of histone H3 (H3K4), thereby playing a central role in defining the histone code. KDM5B demethylates trimethylated, dimethylated and monomethylated H3K4. It does not demethylate histone H3K9 or H3K27. KDM5B functions as a transcriptional corepressor for FOXG1B and PAX9. KDM5B induces the proliferation of breast cancer cells by repressing tumor suppressor genes such as BRCA1 and HOXA5. In contrast, it may act as a tumor suppressor for melanoma.

Product Categories/Family for JARID1B/KDM5B recombinant protein

[Recombinant Proteins](#); [Histone Demethylase \(HDM\)](#)

NCBI AND UNIPROT INFORMATION

NCBI GI #	57242796
NCBI GeneID	10765
NCBI Accession #	NP_006609
NCBI GenBank Nucleotide #	NM_006618.3
UniProt Accession #	Q9UGL1 ; O95811 ; Q15752 ; Q9Y3Q5 ; O94800 ; Q6UGB8 ; Q9NSZ7 ; Q9UFC7 ; Q9UFD3 ; Q9UIW7
Molecular Weight	175,658 Da
NCBI Official Full Name	lysine-specific demethylase 5B
NCBI Official Synonym Full Names	lysine (K)-specific demethylase 5B
NCBI Official Symbol	KDM5B
NCBI Official Synonym Symbols	CT31; PLU1; PUT1; PLU-1; JARID1B; FLJ10538; FLJ12459; FLJ12491; FLJ16281; FLJ23670; RBBP2H1A
NCBI Protein Information	lysine-specific demethylase 5B; RBP2-H1; OTTHUMP00000038815; OTTHUMP00000038816; OTTHUMP00000197658; cancer/testis antigen 31; histone demethylase JARID1B; putative DNA/chromatin binding motif; jumonji, AT rich interactive domain 1B; jumonji/ARID domain-c

UniProt Protein Name	Lysine-specific demethylase 5B
UniProt Gene Name	KDM5B
UniProt Synonym Gene Names	JARID1B; PLU1; RBBP2H1; CT31; RBP2-H1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/kdm5b-recombinant-protein-baculovirus/59680>