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# KDM5B Protein (full length) (DYKDDDDK Tag)

3 Images



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Quantity:	20 μg
Target:	KDM5B
Protein Characteristics:	full length
Origin:	Human
Source:	Insect cells (Sf9)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KDM5B protein is labelled with DYKDDDDK Tag.
Application:	Enzyme Activity Assay (EAA), Screening Assay (ScA)
Product Details	
Characteristics:	Recombinant JARID1B / KDM5B (accession number NP_006609, full length) was expressed in
	Sf9 and contains an N-terminal FLAG tag with a molecular weight of 179.9 kDa.
Target Details	
Target:	KDM5B
Alternative Name:	JARID1B / KDM5B (KDM5B Products)
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

#### **Target Details**

	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.
Molecular Weight:	179.9 kDa
Pathways:	Warburg Effect

#### **Application Details**

Anr	lication	Notes:
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Recombinant JARID1B / KDM5B is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. Specific Activity: H3K4me3 demethylase. Catalytic Rate: 20 turnovers/ enzyme molecule/ hour. Histone Demethylase Assay Conditions: 50 mM HEPES pH 7.5, 0.02 % Triton X100, 100  $\mu$ M 20G, 100  $\mu$ M Ascorbate, 50  $\mu$ M (NH4)2Fe(S04)2•6H2O, 1 mM TCEP, 50 nM Recombinant JARID1B / KDM5B protein, and 3.3  $\mu$ M H3K4me3 (aa 1-21) peptide at 2 hours at room temperature. MALDI-TOF was used for detection.

Restrictions:

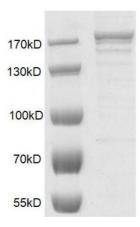
For Research Use only

#### Handling

Handling Advice:	Avoid repeated freeze/thaw cycles and keep on ice when not in storage.	
Storage:	-80 °C	
Storage Comment:	Recombinant proteins in solution are temperature sensitive and must be stored at -80°C to	
	prevent degradation.	

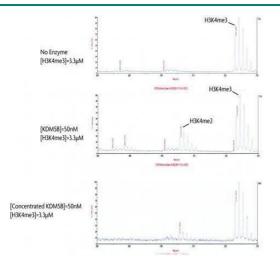
#### Images

## JARID1B



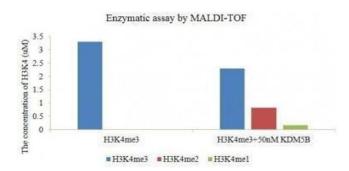
#### **Western Blotting**

**Image 1.** Recombinant JARID1B / KDM5B protein gel. JARID1B / KDM5B protein was run on an SDS-PAGE gel and stained with Coomassie blue.



### **Activity Assay**

**Image 2.** JARID1B / KDM5B activity assay. Recombinant JARID1B / KDM5B activity measured using a demethylation assay. MALDI-TOF was used for detection.



# **Activity Assay**

**Image 3.** Recombinant JARID1B / KDM5B enzymatic assay. Demethylase activity of JARID1B / KDM5B was measured with an enzymatic assay. MALDI-TOF was used for detection. Catalytic rate: 20 turnovers/enzyme/hour.