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## Datasheet for ABIN2669704 KDM3A Protein (DYKDDDDK Tag)

2 Images



### Overview

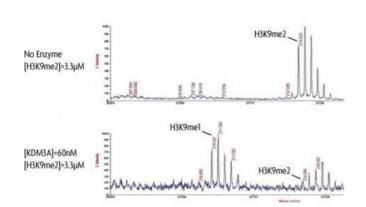
Quantity:	20 µg			
Target:	KDM3A			
Origin:	Human			
Source:	Baculovirus			
Protein Type:	Recombinant			
Purification tag / Conjugate:	This KDM3A protein is labelled with DYKDDDDK Tag.			
Application:	Enzyme Activity Assay (EAA), Screening Assay (ScA)			
Product Details				
Characteristics:	Recombinant JMJD1A / KDM3A (accession number NP_001140160.1) was expressed in Sf9			
	cells and contains an N-terminal FLAG tag with an observed molecular weight of 151.6 kDa.			
Target Details				
Target:	KDM3A			

Alternative Name:	JMJD1A / KDM3A (KDM3A Products)
Background:	KDM3A (lysine (K)-specific demethylase 3A), also known as JMJD1A (Jumonji Domain
	Containing 1A) is a histone demethylase that preferentially demethylates mono- and
	dimethylated lysine 9 of histone H3, with a preference for the dimethylated residue. KDM3A has
	little or no activity on trimethylated lysine 9. KDM3A is involved in hormone-dependent
	transcriptional activation by participating in the recruitment to androgen-receptor target genes
	resulting in H3 lysine 9 demethylation and transcriptional activation. KDM3A is also involved in
	spermatogenesis where it regulates expression of target genes such as PRM1 and TMP1 which

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Target Details						
	are required for packaging and condensation of sperm chromatin. KDM3A contributes to obesity resistance through its regulation of metabolic genes such as PPARα and UCP1.					
Molecular Weight:	151.6 kDa					
Pathways:	Intracellular Steroid Hormone Receptor Signaling Pathway, Nuclear Hormone Receptor Binding Warburg Effect					
Application Details						
Application Notes:	Recombinant JMJD1A / KDM3A is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. Specific Activity: H3K9me2 demethylase. Histone Demethylase Assay Conditions: 50 mM HEPES pH 7.5, 0.02 % Triton X100, 100 µM 2OG, 100 µ M Ascorbate, 50 µM (NH4)2Fe(SO4)2•6H2O, 1 mM TCEP, 60 nM Recombinant JMJD1A / KDM3A protein, and 3.3 µM H3K9me2 (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



### **Activity Assay**

**Image 1.** JMJD1A / KDM3A activity assay. Recombinant JMJD1A / KDM3A activity measured using a demethylation assay. MALDI-TOF was used for detection.

4	М	K	DM:	3A
170kd				
130kd 95kd			1	T
70kd		ł	-	1
55kd	-	r		
40kd				
35kd				
25kd				

#### Western Blotting

**Image 2.** Recombinant JMJD1A / KDM3A protein gel. JMJD1A / KDM3A protein was run on a 10% SDS-PAGE gel and stained with Coomassie blue.

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