.-online.com antibodies

Datasheet for ABIN2669704 KDM3A Protein (DYKDDDDK Tag)

2 Images



Overview

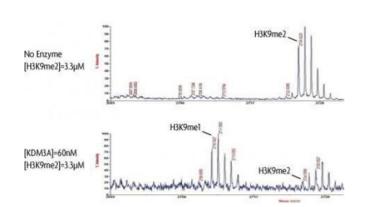
Quantity:	20 µg			
Target:	KDM3A			
Origin:	Human			
Source:	Baculovirus			
Protein Type:	Recombinant			
Purification tag / Conjugate:	This KDM3A protein is labelled with DYKDDDDK Tag.			
Application:	Enzyme Activity Assay (EAA), Screening Assay (ScA)			
Product Details				
Characteristics:	Recombinant 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

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/3 | Product datasheet for ABIN2669704 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

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.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/3 | Product datasheet for ABIN2669704 | 09/11/2023 | Copyright antibodies-online. All rights reserved.