

Datasheet for ABIN2669682
KDM5C Protein (DYKDDDDK Tag)[Go to Product page](#)

2 Images

Overview

Quantity:	20 µg
Target:	KDM5C
Origin:	Human
Source:	Baculovirus
Protein Type:	Recombinant
Purification tag / Conjugate:	This KDM5C protein is labelled with DYKDDDDK Tag.
Application:	Enzyme Activity Assay (EAA), Screening Assay (ScA)

Product Details

Characteristics:	Recombinant JARID1C / KDM5C (accession number NP_004178.2) was expressed in Sf9 and contains an N-terminal FLAG tag with a molecular weight of 180 kDa.
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Target Details

Target:	KDM5C
Alternative Name:	JARID1C / KDM5C (KDM5C Products)
Background:	Lysine (K)-specific demethylase 5C (KDM5C), also known as Jumonji, AT rich interactive domain 1C (JARID1C), is a member of the SMCY homolog family and encodes a protein with one ARID domain, one JmjC domain, one JmjN domain and two PHD-type zinc fingers. It 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 and dimethylated, but not monomethylated H3K4. It does not demethylate histone H3K9, H3K27, H3K36, H3K79 or H4K20. KDM5C participates in transcriptional repression of neuronal genes

Target Details

	by recruiting histone deacetylases and CoREST pAb at neuron-restrictive silencer elements. Mutations in KDM5C have been associated with X-linked mental retardation.
Molecular Weight:	180 kDa
Pathways:	Warburg Effect

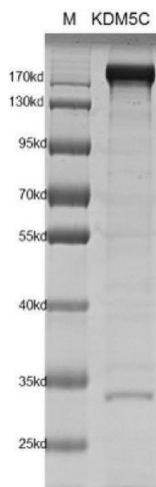
Application Details

Application Notes:	Recombinant JARID1C / KDM5C is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. Specific Activity: H3K4me3 demethylase. Histone Demethylase Assay Conditions: 50 mM HEPES pH 7.5, 0.02 % Triton X100, 100 µM 2OG, 100 µM Ascorbate, 50 µM (NH ₄) ₂ Fe(SO ₄) ₂ ·6H ₂ O, 1 mM TCEP, 100 nM Recombinant JARID1C / KDM5C protein, and 3.3 µM 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



Western Blotting

Image 1. Recombinant JARID1C / KDM5C protein gel. JARID1C / KDM5C protein was run on a 10% SDS-PAGE gel and stained with Coomassie blue.

Activity Assay

Image 2. JARID1C / KDM5C activity assay. Recombinant JARID1C / KDM5C activity measured using a demethylation assay. MALDI-TOF was used for detection.

