

Recombinant Human KDM4A 293 Cell Lysate

Cat. No. KDM4A-4996HCL **Lot. No.** (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for lysine (K)-specific demethylase 4A (KDM4A) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.
Applications	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name	KDM4A lysine (K)-specific demethylase 4A [Homo sapiens]
Official Symbol	KDM4A
Synonyms	KDM4A; lysine (K)-specific demethylase 4A; JMJD2, JMJD2A, jumonji domain containing 2 , jumonji domain containing 2A; lysine-specific demethylase 4A; JHDM3A; jumonji C domain containing histone demethylase 3A; KIAA0677; jumonji domain containing 2; jumonji domain containing 2A; jumonji domain-containing protein 2A; jumonji C domain-containing histone demethylase 3A; jmjC domain-containing histone demethylation protein 3A; JMJD2; JMJD2A;
Gene ID	9682
mRNA Refseq	NM_014663
Protein Refseq	NP_055478
MIM	609764
UniProt ID	O75164
Chromosome Location	1p34.1
Function	histone demethylase activity (H3-K36 specific); metal ion binding; oxidoreductase activity; oxidoreductase activity, acting on single donors with incorporation of molecular oxygen, incorporation of two atoms of oxygen; protein binding; zinc ion

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binding;

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