



# Rabbit Anti-Human KDM4A Polyclonal Antibody (CABT-L2204)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	Polyclonal Antibody to Lysine Specific Demethylase 4A (Knockout Validated)
<b>Specificity</b>	The antibody is a rabbit polyclonal antibody raised against KDM4A. It has been selected for its ability to recognize KDM4A in immunohistochemical staining and western blotting.
<b>Target</b>	KDM4A
<b>Immunogen</b>	Recombinant fragment corresponding to human KDM4A (Tyr141~Lys310)
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human, Mouse
<b>Purification</b>	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB
<b>Format</b>	Liquid
<b>Concentration</b>	Lot specific
<b>Size</b>	200 µg
<b>Buffer</b>	Supplied as solution form in 0.01M PBS with 50% glycerol, pH7.4.
<b>Preservative</b>	0.05% Proclin-300

<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 4°C for frequent use. Aliquot and store at -20°C for 12 months.
<b>Ship</b>	4°C with ice bags

## BACKGROUND

<b>Introduction</b>	This gene is a member of the Jumonji domain 2 (JMJD2) family and encodes a protein containing a JmjN domain, a JmjC domain, a JD2H domain, two TUDOR domains, and two PHD-type zinc fingers. This nuclear protein functions as a trimethylation-specific demethylase, converting specific trimethylated histone residues to the dimethylated form, and as a transcriptional repressor. [provided by RefSeq, Apr 2009]
<b>Keywords</b>	JMJD2;JMJD2A;JHDM3A;JmjC domain-containing histone demethylation protein 3A;Jumonji domain-containing protein 2A

## GENE INFORMATION

<b>Gene Name</b>	KDM4A lysine (K)-specific demethylase 4A [ Homo sapiens (human) ]
<b>Official Symbol</b>	KDM4A
<b>Synonyms</b>	KDM4A; lysine (K)-specific demethylase 4A; JMJD2; JHDM3A; JMJD2A; TDRD14A; lysine-specific demethylase 4A; jumonji domain containing 2; tudor domain containing 14A; jumonji domain containing 2A; jumonji domain-containing protein 2A; jumonji C domain-containing histone demethylase 3A; jmjC domain-containing histone demethylation protein 3A;
<b>Entrez Gene ID</b>	<a href="#">9682</a>
<b>Protein Refseq</b>	NP_055478
<b>UniProt ID</b>	<a href="#">O75164</a>
<b>Chromosome Location</b>	1p34.1
<b>Pathway</b>	Chromatin modifying enzymes; Chromatin organization; HDMs demethylate histones;
<b>Function</b>	histone demethylase activity (H3-K36 specific); methylated histone binding; protein binding; ubiquitin protein ligase binding; zinc ion binding;