

Recombinant Human Lysine (K)-specific Demethylase 1A, GST-tagged

Cat. No. KDM1A-1603H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human KDM1A (172-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	172-end a.a.
Description	KDM1A or lysine (K)-specific demethylase 1A is a nuclear protein containing a SWIRM domain, a FAD-binding motif, and an amine oxidase domain that is a component of several histone deacetylase complexes and act as a histone demethylase. H3K4 histone demethylase activity of KDM1A is partly responsible for the repressive activity of TAL1 and restricts TAL1 function in hematopoiesis. KDM1A plays an essential role for CoREST in demethylation of H3K4 both in vitro and in vivo.
Applications	Western Blot
Molecular Weight	100 kDa
Expression System	Sf9 insect cells using baculovirus.
Form	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol.

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Purity	> 95 %
Concentration	0.1 ug/ul
Sequences	172-end
Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	Coregulation of Androgen receptor activity; Factors involved in megakaryocyte development and platelet production; Notch signaling pathway; Notch-mediated HES/HEY network

GENE INFORMATION

Gene Name	KDM1A lysine (K)-specific demethylase 1A [Homo sapiens]
Official Symbol	KDM1A
Synonyms	KDM1A; AOF2; KDM1; LSD1; BHC110; KIAA0601; lysine (K)-specific demethylase 1A; amine oxidase (flavin containing) domain 2; lysine(K)-specific demethylase 1; Flavin-containing amine oxidase domain-containing protein 2; BRAF35-HDAC complex protein BHC110; FAD-binding protein BRAF35-HDAC complex, 110 kDa subunit; lysine-specific histone demethylase1; lysine-specific histone demethylase 1A
Gene ID	23028
mRNA Refseq	NM_001009999
Protein Refseq	NP_001009999

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MIM	609132
UniProt ID	O60341
Chromosome Location	1p36.12
Function	MyoD binding; androgen receptor binding; chromatin binding; demethylase activity; enzyme binding; flavin adenine dinucleotide binding; histone demethylase activity; histone demethylase activity (H3-K4 specific); histone demethylase activity (H3-K9 specific); histone demethylase activity (H3-dimethyl-K4 specific); ligand-dependent nuclear receptor transcription coactivator activity; oxidoreductase activity; p53 binding; protein binding; transcription factor binding; transcription regulatory region DNA binding

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