

Datasheet for ABIN7564110
KDM3A Protein (AA 1-1323) (His tag)



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Overview

Quantity:	1 mg
Target:	KDM3A
Protein Characteristics:	AA 1-1323
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KDM3A protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Kdm3a Protein expressed in mammalien cells.
Sequence:	MVLTLGESWP VLVGKRFLSL SAAEGNEGGQ DNWDLERVAE WPWLSGTIRA VSHTDVTKKD LKVCVEFDGE SWRKRRWIDV YSLQRKAFLV EHNLVLAERK SPEVPEQVIQ WPAIMYKSL DKAGLGAITS VRFLGDQQSV FVSKDLLKPI QDVNSLRSL TDNQTVSKEF QALIVKHLDE SHLLQGDKNL VGSEVKIYSL DPSTQWFSAT VVHGNPSSKT LQVNCEEIPA LKIVDPALIH VEVVDHNFVT CGNSTRTGAV KRKSSENNGS SVSKQAKSCS EASPSMCPVQ SVPTTVFKEI LLGCTAATPS SKDPRQQNTP QAANSPPNIG AKLPQGCHKQ NLPEELSSCL NTKPEVPRTK PDVCKEGLLS SKSSQVGAGD LKILSEPKGS CIQPKTNTDQ ESRLESAPQP VTGLPKECLP AKTSSKAELD IATTPELQKH LEHAASTSDD LSDKPEVKAG VTSLNCAEK KVEPSHLGSQ SQNLKETSVK VDNESCCTRS SNKTQTTPAR KSVLTDPAKV RKLQSGEAF VQDDSCVNIV AQLPKCRECR LDSLRKDKDQ QKDSPVFCRF FHFRLQFNK HGVLRVEGFL TPNKYDSEAI GLWLPLTKNV VGTDLDTAKY ILANIGDHFC QMWISEKEAM STIEPHRQVA WKRAVKGVRE

MCDVCDTTIF NLHWVCPRCG FGVCVDCYRM KRKNCQQGAA YKTFSWIRCV KSQIHEPENL
MPTQIIPGKA LYDVGDIVHS VRAKWGIKAN CPCSNRQFKL FSKPALKEDL KQTSLSGEKP
TLGTMVQQSS PVLEPVAVCG EAASKPASSV KPTCPTSTSP LNWLADLTSG NVNKENKEKQ
LTMPILKNEI KCLPPLPLN KPSTVLHTFN STILTPVSNN NSGFLRNLLN SSTAKTENGL
KNTPKILDDI FASLVQNKTS SDSSKRPQGL TIKPSILGFD TPHYWLCDNR LLCLQDPNNK
SNWNVFRECW KQGQPMVSG VHHKLNTELW KPESFRKEFG EQEVDLVNCR TNEITGATV
GDFWDGFEDV PNRLKNDKEK EPMVLKLKDW PPGEDFRDMM PSRFDDLMAN IPLPEYTRRD
GKLNLASRLP NYFVRPDLGP KMYNAYGLIT PEDRKYGTTN LHLDVSDAAN VMVYVGIPKG
QCEQEEEVLR TIQDGDSEDL TIKRFIEGKE KPGALWHIYA AKDTEKIREF LKKVSEEQGG
DNPADHDPIH DQSWYLDRSL RKRLYQEYGV QGWAIVQFLG DVVFIPAGAP HQVHNLYSCI
KVAEDFVSPE HVKHCFWLTQ EFRYLSQTHT NHEDKLQVKN VIYHAVKDAV AMLKASESSL GKP

Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	KDM3A
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Target Details

Alternative Name:	Kdm3a (KDM3A Products)
Background:	Lysine-specific demethylase 3A (EC 1.14.11.65) (JmjC domain-containing histone demethylation protein 2A) (Jumonji domain-containing protein 1A) ([histone H3]-dimethyl-L-lysine(9) demethylase 3A),FUNCTION: Histone demethylase that specifically demethylates 'Lys-9' of histone H3, thereby playing a central role in histone code. Preferentially demethylates mono- and dimethylated H3 'Lys-9' residue, with a preference for dimethylated residue, while it has weak or no activity on trimethylated H3 'Lys-9'. Demethylation of Lys residue generates formaldehyde and succinate. Involved in hormone-dependent transcriptional activation, by participating in recruitment to androgen-receptor target genes, resulting in H3 'Lys-9' demethylation and transcriptional activation (By similarity). Involved in spermatogenesis by regulating expression of target genes such as PRM1 and TNP1 which are required for packaging and condensation of sperm chromatin (PubMed:17943087). Involved in obesity resistance through regulation of metabolic genes such as PPARA and UCP1. {ECO:0000250, ECO:0000269 PubMed:17943087, ECO:0000269 PubMed:19194461}.
Molecular Weight:	147.8 kDa
UniProt:	Q6PCM1
Pathways:	Intracellular Steroid Hormone Receptor Signaling Pathway , Nuclear Hormone Receptor Binding , Warburg Effect

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.

Handling

Expiry Date: 12 months