Datasheet for ABIN7554327

KDM3A Protein (AA 1-1321) (His tag)

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Overview

Quantity:	1 mg
Target:	KDM3A
Protein Characteristics:	AA 1-1321
Origin:	Human
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 VLVGRRFLSL SAADGSDGSH DSWDVERVAE WPWLSGTIRA VSHTDVTKKD LKVCVEFDGE SWRKRRWIEV YSLLRRAFLV EHNLVLAERK SPEISERIVQ WPAITYKPLL DKAGLGSITS VRFLGDQQRV FLSKDLLKPI QDVNSLRLSL TDNQIVSKEF QALIVKHLDE SHLLKGDKNL VGSEVKIYSL DPSTQWFSAT VINGNPASKT LQVNCEEIPA LKIVDPSLIH VEVVHDNLVT CGNSARIGAV KRKSSENNGT LVSKQAKSCS EASPSMCPVQ SVPTTVFKEI LLGCTAATPP SKDPRQQSTP QAANSPPNLG AKIPQGCHKQ SLPEEISSCL NTKSEALRTK PDVCKAGLLS KSSQIGTGDL KILTEPKGSC TQPKTNTDQE NRLESVPQAL TGLPKECLPT KASSKAELEI ANPPELQKHL EHAPSPSDVS NAPEVKAGVN SDSPNNCSGK KVEPSALACR SQNLKESSVK VDNESCCSRS NNKIQNAPSR KSVLTDPAKL KKLQQSGEAF VQDDSCVNIV AQLPKCRECR LDSLRKDKEQ QKDSPVFCRF FHFRRLQFNK HGVLRVEGFL TPNKYDNEAI GLWLPLTKNV VGIDLDTAKY ILANIGDHFC QMVISEKEAM STIEPHRQVA WKRAVKGVRE

Product Details

	MCDVCDTTIF NLHWVCPRCG FGVCVDCYRM KRKNCQQGAA YKTFSWLKCV KSQIHEPENL MPTQIIPGKA LYDVGDIVHS VRAKWGIKAN CPCSNRQFKL FSKPASKEDL KQTSLAGEKP TLGAVLQQNP SVLEPAAVGG EAASKPAGSM KPACPASTSP LNWLADLTSG NVNKENKEKQ PTMPILKNEI KCLPPLPPLS KSSTVLHTFN STILTPVSNN NSGFLRNLLN SSTGKTENGL KNTPKILDDI FASLVQNKTT SDLSKRPQGL TIKPSILGFD TPHYWLCDNR LLCLQDPNNK SNWNVFRECW KQGQPVMVSG VHHKLNSELW KPESFRKEFG EQEVDLVNCR TNEIITGATV GDFWDGFEDV PNRLKNEKEP MVLKLKDWPP GEDFRDMMPS RFDDLMANIP LPEYTRRDGK LNLASRLPNY FVRPDLGPKM YNAYGLITPE DRKYGTTNLH LDVSDAANVM VYVGIPKGQC EQEEEVLKTI QDGDSDELTI KRFIEGKEKP GALWHIYAAK DTEKIREFLK KVSEEQGQEN PADHDPIHDQ SWYLDRSLRK RLHQEYGVQG WAIVQFLGDV VFIPAGAPHQ VHNLYSCIKV AEDFVSPEHV KHCFWLTQEF RYLSQTHTNH EDKLQVKNVI YHAVKDAVAM LKASESSFGK P **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 mammalien 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

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. Involved in spermatogenesis by regulating expression of target genes such as PRM1 and TNP1 which are required for packaging and condensation of sperm chromatin. Involved in obesity resistance through regulation of metabolic genes such as PPARA and UCP1. {ECO:0000269|PubMed:16603237, ECO:0000269|PubMed:28262558}.
Molecular Weight:	147.3 kDa
UniProt:	Q9Y4C1
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