Datasheet for ABIN7564013

MYSM1 Protein (AA 1-819) (His tag)

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Overview

Quantity:	1 mg
Target:	MYSM1
Protein Characteristics:	AA 1-819
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MYSM1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Mysm1 Protein expressed in mammalien cells.
Sequence:	MEAEEADVDV EGDVAAAAQP GNDESTASVF QDHYLDSTWR RENGCLPWTL DSTISDENRA IIEKMLLEEE YYLSNKSLPG KFWVNQKEDN KKYTNSLQKS SKAMVDSPAK PASHSVKWTV EEKELFEQGL AKFGRRWTKI ATLLKSRTVL QVKSYARQYF KNKVKWDVEK ETPTQKSSSD LQVKNKDDRT KAWAAACLRG SADPCLNAVK IEKLSDDEDV DITDELDELT SQTSQNSGSH LTLDVPNSKM YTTNQGELCQ EGPLAKSSGE SLQNVKQGEG EACSSSEIAS WAEKQKSTDK NSAELNEKYN KVVEEHTLHR GEVREEAKHS PSPEPCERQD SSGNEMLLPP CQIEEENHEG EELKPPEQEV EIDRNVIQEE EKQAIPEFFE GRQTKTPERY LKIRNYILDQ WEICKPKYLN KTSVRPGLKN CGDVNCIGRI HTYLELIGAI NFGCEQAVYN RPQPLDKVRA ADRKDAEAAY QLAWRLQSMR TRRRRVRDPW GNWCDAKDLE GQTFEHLSVE EMARRKEEEK CKPIKFSKAS KLPKSSLDPF QLIPCNFFSE EKQEPFQVKV AAEALLIMNL HAHVSMAEVI GLLGGRYSEA DKVLEVCAAE PCNSLSTGLQ CEMDPVSQTQ ASETLALRGY SVIGWYHSHP AFDPNPSLRD

Product Details

	IDTQAKYQSY FSRGGAKFIG MIVSPYNRSN PLPYSQITCL VISEEVSPDG TYRLPYKFEV QQMLEEPQWE LVFEKTRWII EKYRLSNSSV PMDRIFRRDS DLTCLQKLLE CLRKTLSKVA NCFIAEEFLT QIENLFLSNY KSKEENGLAE EDSTKELFM **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:	MYSM1
Alternative Name:	Mysm1 (MYSM1 Products)
Background:	Deubiquitinase MYSM1 (2A-DUB) (EC 3.4.19.-) (Myb-like, SWIRM and MPN domain-containing protein 1),FUNCTION: Metalloprotease with deubiquitinase activity that plays important regulator roles in hematopoietic stem cell function, blood cell production and immune response (PubMed:26474655, PubMed:27895164, PubMed:30405132). Participates in the normal programming of B-cell responses to antigen after the maturation process (PubMed:27895164). Within the cytoplasm, plays critical roles in the repression of innate immunity and autoimmunity (PubMed:26474655, PubMed:30405132). Removes 'Lys-63'-linked polyubiquitins from TRAF3

Target Details

	and TRAF6 complexes (PubMed:26474655). Attenuates NOD2-mediated inflammation and tissue injury by promoting 'Lys-63'-linked deubiquitination of RIPK2 component (PubMed:30405132). Suppresses the CGAS-STING1 signaling pathway by cleaving STING1 'Lys-63'-linked ubiquitin chains (PubMed:33086059). In the nucleus, acts as a hematopoietic transcription regulator derepressing a range of genes essential for normal stem cell differentiation including EBF1 and PAX5 in B-cells, ID2 in NK-cell progenitor or FLT3 in dendritic cell precursors (PubMed:22169041, PubMed:24062447, PubMed:25217698, PubMed:26348977). Deubiquitinates monoubiquitinated histone H2A, a specific tag for epigenetic transcriptional repression, leading to dissociation of histone H1 from the nucleosome (By similarity). {ECO:0000250|UniProtKB:Q5VVJ2, ECO:0000269|PubMed:22169041, ECO:0000269|PubMed:24062447, ECO:0000269|PubMed:25217698, ECO:0000269|PubMed:26348977, ECO:0000269|PubMed:26474655, ECO:0000269|PubMed:27895164, ECO:0000269|PubMed:30405132}.
Molecular Weight:	93.5 kDa
UniProt:	Q69Z66
Pathways:	Chromatin Binding

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.
Expiry Date:	12 months