

Recombinant Human MYSM1 Protein (A2-M828), His tagged

Cat. No. MYSM1-0684H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human 6His-TEV-GG-MYSM1(A2-M828 end) Protein was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	A2-M828
Description	Metalloprotease with deubiquitinase activity that plays important regulator roles in hematopoietic stem cell function, blood cell production and immune response. Participates in the normal programming of B-cell responses to antigen after the maturation process. Within the cytoplasm, plays critical roles in the repression of innate immunity and autoimmunity. Removes 'Lys-63'-linked polyubiquitins from TRAF3 and TRAF6 complexes. Attenuates NOD2-mediated inflammation and tissue injury by promoting 'Lys-63'-linked deubiquitination of RIPK2 component. Suppresses the CGAS-STING1 signaling pathway by cleaving STING1 'Lys-63'-linked ubiquitin chains. 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. Deubiquitinates monoubiquitinated histone H2A, a specific tag for epigenetic transcriptional repression, leading to dissociation of histone H1 from the nucleosome.
Form	Liquid

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Endotoxin	< 0.01 EU per µg of the protein
Purity	90%
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Supplied as sterile 50mM Tris-HCl (pH 7.5), 200mM NaCl, 20% glycerol
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Gene Name	MYSM1 Myb-like, SWIRM and MPN domains 1 [Homo sapiens (human)]
Official Symbol	MYSM1
Synonyms	MYSM1; Myb-like, SWIRM and MPN domains 1; histone H2A deubiquitinase MYSM1; KIAA1915; myb-like, SWIRM and MPN domain-containing protein 1; 2ADUB; 2A-DUB; RP4-592A1.1; DKFZp779J1554; DKFZp779J1721;
Gene ID	114803
mRNA Refseq	NM_001085487
Protein Refseq	NP_001078956
MIM	612176

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UniProt ID

Q5VVJ2

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