

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

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <b>Product Overview</b> | Recombinant Human 6His-TEV-GG-MYSM1(A2-M828 end) Protein was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>ProteinLength</b>    | A2-M828                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | <p>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.</p> |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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|                       |                                                                                                                                                                     |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>      | < 0.01 EU per µg of the protein                                                                                                                                     |
| <b>Purity</b>         | 90%                                                                                                                                                                 |
| <b>Stability</b>      | Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.                                                                           |
| <b>Storage</b>        | 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. |
| <b>Storage Buffer</b> | Supplied as sterile 50mM Tris-HCl (pH 7.5), 200mM NaCl, 20% glycerol                                                                                                |
| <b>Shipping</b>       | It is shipped out with blue ice.                                                                                                                                    |

## GENE INFORMATION

|                        |                                                                                                                                                                                                      |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | MYSM1 Myb-like, SWIRM and MPN domains 1 [ Homo sapiens (human) ]                                                                                                                                     |
| <b>Official Symbol</b> | MYSM1                                                                                                                                                                                                |
| <b>Synonyms</b>        | 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; |
| <b>Gene ID</b>         | 114803                                                                                                                                                                                               |
| <b>mRNA Refseq</b>     | NM_001085487                                                                                                                                                                                         |
| <b>Protein Refseq</b>  | NP_001078956                                                                                                                                                                                         |
| <b>MIM</b>             | 612176                                                                                                                                                                                               |

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UniProt ID

Q5VVJ2

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