

MYSM1 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP10517a**Specification**

MYSM1 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession
Other Accession[O5VVJ2](#)
[NP_001078956.1](#)**MYSM1 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 114803**Other Names**

Histone H2A deubiquitinase MYSM1, 2A-DUB, 3419-, Myb-like, SWIRM and MPN domain-containing protein 1, MYSM1, KIAA1915

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

MYSM1 Antibody (N-term) Blocking Peptide - Protein Information**Name** MYSM1**Synonyms** KIAA1915**Function**

Metalloprotease with deubiquitinase activity that plays important regulator roles in hematopoietic stem cell function, blood cell production and immune response (PubMed:24062447, PubMed:26220525, PubMed:28115216). Participates in the normal programming of B-cell responses to antigen after the maturation process (By similarity). Within the cytoplasm, plays critical roles in the repression of innate immunity and autoimmunity (PubMed:33086059). Removes 'Lys-63'-linked polyubiquitins from TRAF3 and TRAF6 complexes (By similarity). Attenuates NOD2-mediated inflammation and tissue injury by promoting 'Lys-63'-linked deubiquitination of RIPK2 component (By similarity). 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:24062447). Deubiquitinates monoubiquitinated histone H2A, a specific tag for epigenetic transcriptional repression, leading to dissociation of histone H1 from the nucleosome (PubMed:17707232).

Cellular Location

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00624, ECO:0000269|PubMed:17707232}.

Cytoplasm {ECO:0000250|UniProtKB:Q69Z66} Note=Localizes to the cytoplasm in response to bacterial infection {ECO:0000250|UniProtKB:Q69Z66}

MYSM1 Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

MYSM1 Antibody (N-term) Blocking Peptide - Images

MYSM1 Antibody (N-term) Blocking Peptide - Background

Metalloprotease that specifically deubiquitinates monoubiquitinated histone H2A, a specific tag for epigenetic transcriptional repression, thereby acting as a coactivator. Preferentially deubiquitinates monoubiquitinated H2A in hyperacetylated nucleosomes. Deubiquitination of histone H2A leads to facilitate the phosphorylation and dissociation of histone H1 from the nucleosome. Acts as a coactivator by participating in the initiation and elongation steps of androgen receptor (AR)-induced gene activation.

MYSM1 Antibody (N-term) Blocking Peptide - References

Dephoure, N., et al. Proc. Natl. Acad. Sci. U.S.A. 105(31):10762-10767(2008)Zhu, P., et al. Mol. Cell 27(4):609-621(2007)Matsuoka, S., et al. Science 316(5828):1160-1166(2007)Yoneyama, M., et al. J. Mol. Biol. 369(1):222-238(2007)