

MYSM1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP10517a

Product Information

Application	FC, WB, E
Primary Accession	Q5VVJ2
Other Accession	Q69Z66 , NP_001078956.1
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB27661
Calculated MW	95032
Antigen Region	111-139

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
Target/Specificity	This MYSM1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 111-139 amino acids from the N-terminal region of human MYSM1.
Dilution	FC~~1:10~50 WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	MYSM1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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}

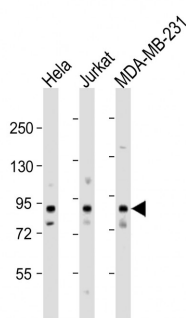
Background

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.

References

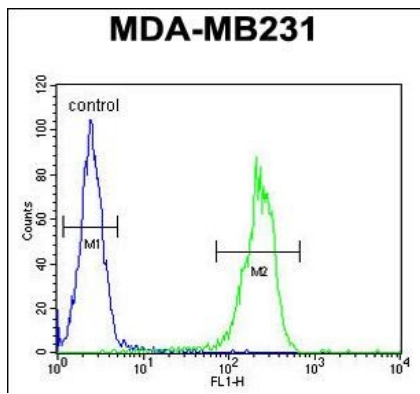
Dephoure, N., et al. Proc. Natl. Acad. Sci. U.S.A. 105(31):10762-10767(2008)
 Zhu, P., et al. Mol. Cell 27(4):609-621(2007)
 Matsuoka, S., et al. Science 316(5828):1160-1166(2007)
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Images



All lanes : Anti-MYSM1 Antibody (N-term) at 1:1000 dilution Lane 1: HeLa whole cell lysate Lane 2: Jurkat whole cell lysate Lane 3: MDA-MB-231 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 95 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

MYSM1 Antibody (N-term) (Cat. #AP10517a) flow cytometric analysis of MDA-MB231 cells (right histogram) compared to a negative control cell (left



histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.