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MYSM1 Antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI15443

Product Information

Application	WB
Primary Accession	Q5VVJ2
Other Accession	NM_001085487, NP_001078956
Reactivity	Human, Rabbit, Dog
Predicted	Human, Rabbit, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	95032

Additional Information

Gene ID	114803
Alias Symbol	2A-DUB, 2ADUB, DKFZp779J1554, DKFZp779J1721, KIAA1915, RP4-592A1.1
Other Names	Histone H2A deubiquitinase MYSM1, 2A-DUB, 3.4.19.-, Myb-like, SWIRM and MPN domain-containing protein 1, MYSM1, KIAA1915
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-MYSM1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	MYSM1 Antibody - C-terminal region 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).

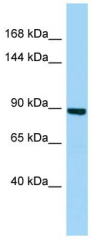
Cellular Location

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}

References

Nagase T.,et al.DNA Res. 8:179-187(2001).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Bechtel S.,et al.BMC Genomics 8:399-399(2007).
Gregory S.G.,et al.Nature 441:315-321(2006).
Zhu P.,et al.Mol. Cell 27:609-621(2007).

Images



Host: Rabbit
Target Name: MYSM1
Sample Tissue: Fetal Liver lysates
Antibody Dilution: 1.0µg/ml