Product Name: MYSM1 Rabbit Polyclonal Antibody
Catalog #: APRab14357

Summary

Production Name	MYSM1 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IHC,WB,
Reactivity	Human,Rat,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	MYSM1
Alternative Names	MYSM1; KIAA1915; Histone H2A deubiquitinase MYSM1; 2A-DUB; Myb-like; SWIRM and MPN domain-containing protein 1
Gene ID	114803.0
SwissProt ID	Q5VVJ2.The antiserum was produced against synthesized peptide derived from human MYSM1. AA range:520-569

Application

Dilution Ratio	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000..
Molecular Weight	95kD

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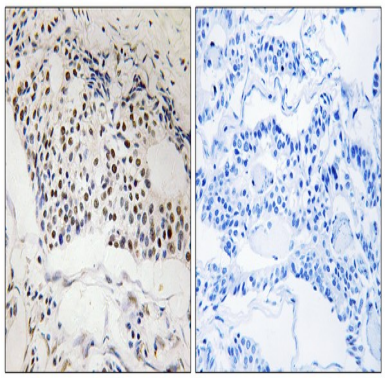
Background

catalytic activity:Ubiquitin C-terminal thioester + H(2)O = ubiquitin + a thiol.,domain:Binds double-stranded DNA via the SANT domain. The SWIRM domain does not bind double-stranded DNA.,function: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.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the peptidase M67A family. MYSM1 subfamily.,similarity:Contains 1 MPN (JAB/Mov34) domain.,similarity:Contains 1 SANT domain.,similarity:Contains 1 SWIRM domain.,subunit:Component of a large chromatin remodeling complex, at least composed of MYSM1, PCAF, RBM10 and KIF11/TRIP5. Binds histones.,catalytic activity:Ubiquitin C-terminal thioester + H(2)O = ubiquitin + a thiol.,domain:Binds double-stranded DNA via the SANT domain. The SWIRM domain does not bind double-stranded DNA.,function: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.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the peptidase M67A family. MYSM1 subfamily.,similarity:Contains 1 MPN (JAB/Mov34) domain.,similarity:Contains 1 SANT domain.,similarity:Contains 1 SWIRM domain.,subunit:Component of a large chromatin remodeling complex, at least composed of MYSM1, PCAF, RBM10 and KIF11/TRIP5. Binds histones.,

Research Area

Image Data



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using MYSM1 Antibody. The picture on the right is blocked with the synthesized peptide.

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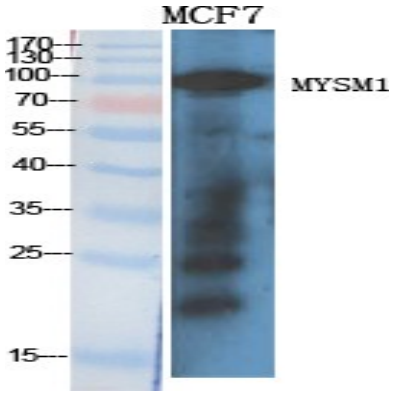
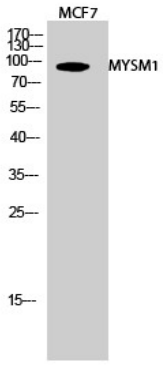
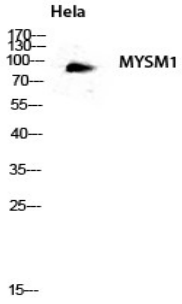


Western Blot analysis of various cells using MYSM1 Polyclonal Antibody diluted at 1：2000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit （SC-003,Inventbiotech,MN,USA）.



Western Blot analysis of MCF7 cells using MYSM1 Polyclonal Antibody diluted at 1：2000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit （SC-003,Inventbiotech,MN,USA）.



Western blot analysis of Hela lysis using MYSM1 antibody. Antibody was diluted at 1:2000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit （SC-003,Inventbiotech,MN,USA）.

Note

For research use only.