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**Product Name: MYSM1 Rabbit Polyclonal Antibody****Catalog #: APRab14357**

For research use only.

**Summary**

<b>Description</b>	Rabbit polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,IHC,ICC/IF,ELISA
<b>Reactivity</b>	Human,Rat,Mouse
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:20000-1:40000
<b>Molecular Weight</b>	95kDa

**Antigen Information**

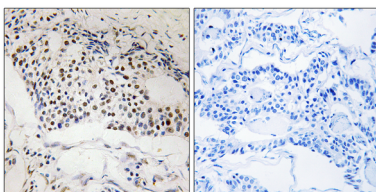
<b>Gene Name</b>	MYSM1
<b>Alternative Names</b>	MYSM1; KIAA1915; Histone H2A deubiquitinase MYSM1; 2A-DUB; Myb-like; SWIRM and MPN domain-containing protein 1
<b>Gene ID</b>	114803.0
<b>SwissProt ID</b>	Q5VVJ2
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human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

**Background**

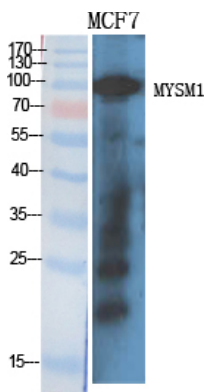
catalytic activity:Ubiquitin C-terminal thioester + H(2)O = ubiquitin + a thiol.,domain:Binds double-stranded DNA via the SANT domain. The SWIRM domain does not bind double-stranded DNA.,function:Metalloprotease that specifically deubiquitinates monoubiquitinated histone H2A, a specific tag for epigenetic 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

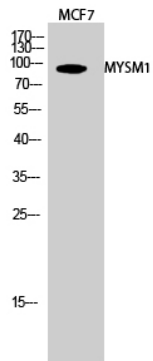
## Image Data



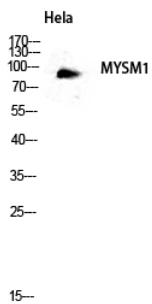
Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using MYSM1 Antibody. The picture on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using MYSM1 Polyclonal Antibody diluted at 1 : 2000.



Western Blot analysis of MCF7 cells using MYSM1 Polyclonal Antibody diluted at 1:2000.



Western blot analysis of HeLa lysis using MYSM1 antibody. Antibody was diluted at 1:2000.