




Product datasheet

Anti-MYSM1 antibody ab221725

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Overview

Product name	Anti-MYSM1 antibody
Description	Rabbit polyclonal to MYSM1
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Chicken 
Immunogen	Recombinant fragment corresponding to Human MYSM1 aa 400-550. Database link: Q5VVJ2  Run BLAST with  Run BLAST with
Positive control	WB: U-251 MG cell lysate. ICC/IF: U-251 MG cells.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.02% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab221725 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 0.25 - 2 µg/ml. Fixation/Permeabilization: PFA/Triton X-100.
WB		Use a concentration of 0.04 - 0.4 µg/ml. Predicted molecular weight: 95 kDa.

Target

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.

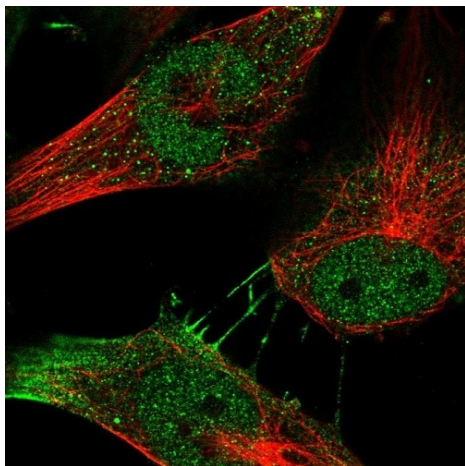
Sequence similarities Belongs to the peptidase M67A family. MYSM1 subfamily.
Contains 1 MPN (JAB/Mov34) domain.
Contains 1 SANT domain.
Contains 1 SWIRM domain.

Domain Binds double-stranded DNA via the SANT domain. The SWIRM domain does not bind double-stranded DNA.

Post-translational modifications Phosphorylated upon DNA damage, probably by ATM or ATR.

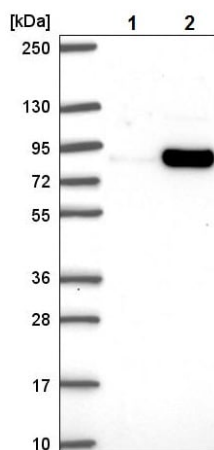
Cellular localization Nucleus.

Images



Immunocytochemistry/ Immunofluorescence - Anti-MYSM1 antibody (ab221725)

PFA-fixed, Triton X-100 permeabilized U-251 MG (human brain glioma cell line) cells stained for MYSM1 (green) using ab221725 at 4 µg/ml in ICC/IF.



Western blot - Anti-MYSM1 antibody (ab221725)

All lanes : Anti-MYSM1 antibody (ab221725) at 1/250 dilution

Lane 1 : RT4 (human urinary bladder cancer cell line) cell lysate

Lane 2 : U-251 MG (human brain glioma cell line) cell lysate

Predicted band size: 95 kDa

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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