

Product datasheet

Anti-SENP1 antibody [EPR3844] ab108981

Recombinant **RabMAb**

★★★★★ **7 Abreviews** **39 References** [9 Images](#)

Overview

| | |
|----------------------------|--|
| Product name | Anti-SENP1 antibody [EPR3844] |
| Description | Rabbit monoclonal [EPR3844] to SENP1 |
| Host species | Rabbit |
| Tested applications | Suitable for: Flow Cyt (Intra), ICC/IF, WB, IHC-P Unsuitable for: IP |
| Species reactivity | Reacts with: Human |
| Immunogen | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. |
| Positive control | WB: HeLa, HUVEC, Jurkat, Daudi and U87-MG cell lysates. IHC-P: Human testis tissue. ICC/IF: Jurkat cells. Flow Cyt (intra): HeLa cells. |
| General notes | <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</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. Avoid freeze / thaw cycle. |
| Storage buffer | pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 50% Glycerol (glycerin, glycerine), 49% PBS, 0.05% BSA |
| Purity | Protein A purified |

| | |
|---------------------|------------|
| Clonality | Monoclonal |
| Clone number | EPR3844 |
| Isotype | IgG |

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab108981 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

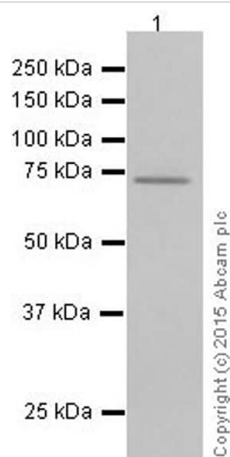
| Application | Abreviews | Notes |
|------------------|-----------|--|
| Flow Cyt (Intra) | | 1/20. |
| ICC/IF | ★★★★★ (3) | 1/100 - 1/500. |
| WB | ★★★★★ (4) | 1/1000 - 1/20000. Predicted molecular weight: 73 kDa. |
| IHC-P | | 1/100 - 1/300. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See IHC antigen retrieval protocols . |

Application notes Is unsuitable for IP.

Target

| | |
|------------------------------|--|
| Function | Protease that catalyzes two essential functions in the SUMO pathway: processing of full-length SUMO1, SUMO2 and SUMO3 to their mature forms and deconjugation of SUMO1, SUMO2 and SUMO3 from targeted proteins. Deconjugates SUMO1 from HIPK2. Deconjugates SUMO1 from HDAC1, which decreases its transcriptional repression activity. |
| Tissue specificity | Highly expressed in testis. Expressed at lower levels in thymus, pancreas, spleen, liver, ovary and small intestine. |
| Sequence similarities | Belongs to the peptidase C48 family. |
| Cellular localization | Nucleus. Cytoplasm. Shuttles between cytoplasm and nucleus. |

Images



Western blot - Anti-SENP1 antibody [EPR3844] (ab108981)

Anti-SENP1 antibody [EPR3844] (ab108981) at 1/20000 dilution (purified) + Daudi cell lysate at 10 µg

Secondary

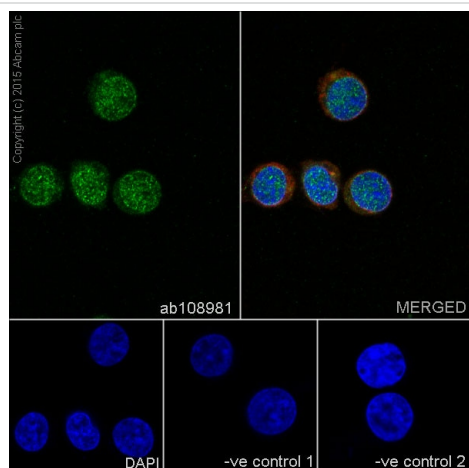
HRP goat anti-rabbit IgG (H+L) at 1/20000 dilution

Predicted band size: 73 kDa

Observed band size: 73 kDa

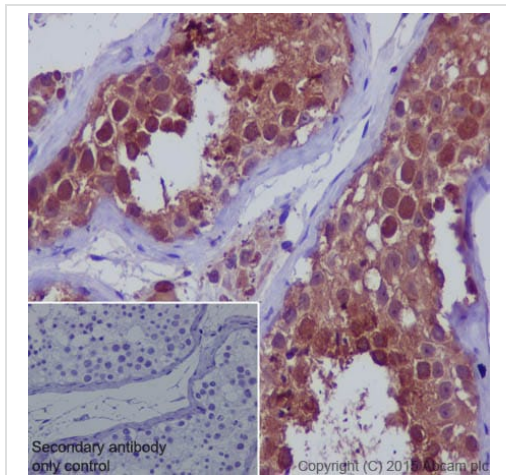
Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



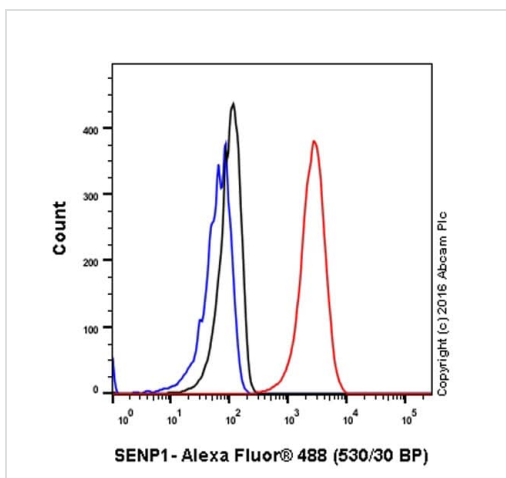
Immunocytochemistry/ Immunofluorescence - Anti-SENP1 antibody [EPR3844] (ab108981)

Immunofluorescence staining of Jurkat cells with purified ab108981 at a working dilution of 1/100, counter-stained with DAPI. The secondary antibody was Alexa Fluor[®] 488 goat anti-rabbit ([ab150077](#)), used at a dilution of 1/1000. [ab7291](#), a mouse anti-tubulin antibody (1/1000), was used to stain tubulin along with [ab150120](#) (Alexa Fluor[®] 594 goat anti-mouse, 1/1000), shown in the top right hand panel. The cells were fixed in 4% PFA and permeabilized using 0.1% Triton X 100. The negative controls are shown in bottom middle and right hand panels - for negative control 1, purified ab108981 was used at a dilution of 1/500 followed by an Alexa Fluor[®] 594 goat anti-mouse antibody ([ab150120](#)) at a dilution of 1/500. For negative control 2, [ab7291](#) (mouse anti-tubulin) was used at a dilution of 1/500 followed by an Alexa Fluor[®] 488 goat anti-rabbit antibody ([ab150077](#)) at a dilution of 1/400.



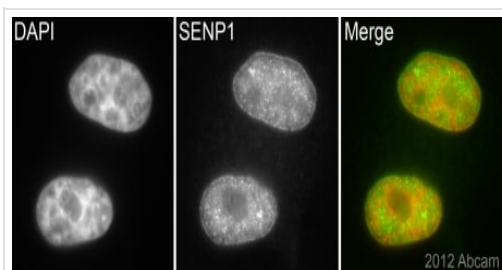
Immunohistochemical staining of paraffin embedded human testis with purified ab108981 at a working dilution of 1/300. The secondary antibody used is HRP goat anti-rabbit IgG H&L (**ab97051**) at 1/500. The sample is counter-stained with hematoxylin. Antigen retrieval was performed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SEN1 antibody [EPR3844] (ab108981)



Intracellular Flow Cytometry analysis of HeLa cells labelling SEN1 with purified ab108981 at a dilution of 1/20 (red). Cells were fixed with 4% paraformaldehyde and permeabilized with 90% methanol. An Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/2000) was used as the secondary antibody. Black - Isotype control, rabbit monoclonal IgG. Blue - Unlabelled control, cells without incubation with primary and secondary antibodies.

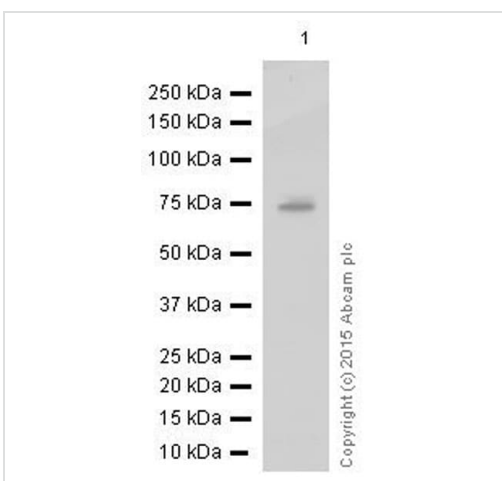
Flow Cytometry (Intracellular) - Anti-SEN1 antibody [EPR3844] (ab108981)



Immunocytochemistry/ Immunofluorescence - Anti-SENP1 antibody [EPR3844] (ab108981)

Image courtesy of an Abreview submitted by Dr. Kirk McManus, Univ. of Manitoba/Cancer Care MCB, Canada

Unpurified ab108981 (1/500) staining SENP1 in HeLa cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.5% Triton X-100/PBS and counterstained with DAPI in order to highlight the nucleus (red). For further experimental details please refer to Abreview.



Western blot - Anti-SENP1 antibody [EPR3844] (ab108981)

Anti-SENP1 antibody [EPR3844] (ab108981) at 1/20000 dilution (purified) + U87-MG cell lysate at 10 µg

Secondary

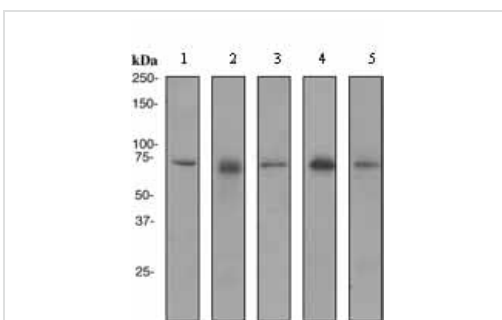
HRP goat anti-rabbit IgG (H+L) at 1/20000 dilution

Predicted band size: 73 kDa

Observed band size: 73 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



Western blot - Anti-SENP1 antibody [EPR3844] (ab108981)

All lanes : Anti-SENP1 antibody [EPR3844] (ab108981) at 1/1000 dilution (unpurified)

Lane 1 : HeLa cell lysates

Lane 2 : HUVEC cell lysates

Lane 3 : Jurkat cell lysates

Lane 4 : Daudi cell lysates

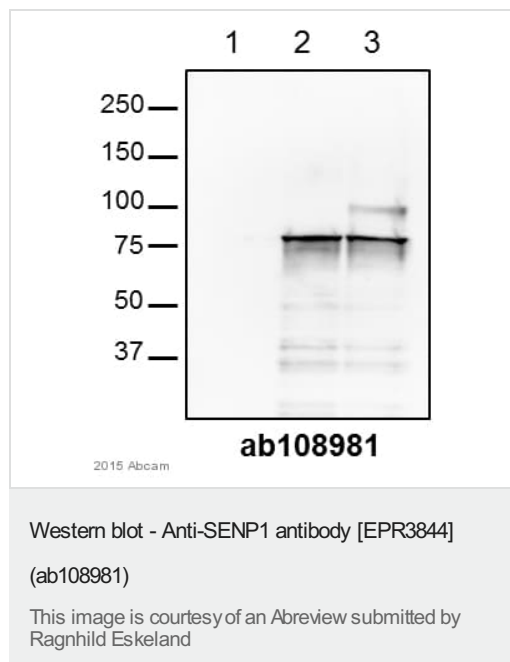
Lane 5 : U87-MG cell lysates

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Standard HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 73 kDa



All lanes : Anti-SENP1 antibody [EPR3844] (ab108981) at 1/1000 dilution (unpurified)

Lane 1 : COS-1 cell lysate

Lane 2 : COS-1 cell lysate transfected with SENP1

Lane 3 : COS-1 cell lysate transfected with SENP1 mutant

Lysates/proteins at 20000 cells per lane.

Secondary

All lanes : HRP-conjugated donkey anti-rabbit IgG polyclonal at 1/10000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 73 kDa





Observed band size: 75 kDa

Exposure time: 6 minutes

Blocked with 3% milk for 1 hour at 25°C.

Incubated with the primary antibody for 18 hours at 4°C.

Why choose a recombinant antibody?

| | |
|--|--|
|  <p>Research with confidence Consistent and reproducible results</p> |  <p>Long-term and scalable supply Recombinant technology</p> |
|  <p>Success from the first experiment Confirmed specificity</p> |  <p>Ethical standards compliant Animal-free production</p> |

Anti-SENP1 antibody [EPR3844] (ab108981)

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