abcam

ab184555

Anti-SDS3 antibody [EPR15000]

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR15000
Purification technique	Affinity purification Protein A
Concentration	1.283 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Human
Dilution info	1/1000 - 1/2000
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/250
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information SUDS3

Function Regulatory protein which represses transcription and augments histone deacetylase activity of HDAC1. May have a potential role in tumor suppressor pathways through regulation of apoptosis. May function in the assembly and/or enzymatic activity of the mSin3A corepressor complex or in mediating interactions between the complex and other regulatory complexes.

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C

Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	SDS3 also known as SAP30 binding protein (SAP30BP) is a protein with a molecular weight of about 46 kDa. This protein is expressed in various tissues notably in the nucleus of cells. Mechanically SDS3 functions as a transcriptional regulator playing an essential role in chromatin remodeling and gene expression. It is a part of histone deacetylase complexes where it helps modulate the structural conformation of chromatin affecting DNA accessibility.
Biological function summary	SDS3 exerts important roles by being a component of the Sin3a corepressor complex. This complex is responsible for the repression of transcription through histone modification specifically deacetylation which leads to chromatin condensation. In this way SDS3 contributes to silencing specific genes which can influence cell differentiation and proliferation. Its interactions within the complex contribute to the regulation of diverse genes vital for cellular homeostasis.
Pathways	SDS3's interactions intervene in the transcriptional repression pathways and cell cycle regulation pathways. Involvement in these pathways showcases its role in maintaining proper cell division and controlling gene expression timing. SDS3 is closely related to other proteins like histone deacetylases HDAC1 and HDAC2 which participate in deacetylation activities that repress transcription and modify chromatin structure to restrict gene accessibility.
Associated diseases and disorders	SDS3 has been linked to various cancers due to its role in regulating genes that control cell proliferation and survival. Abnormal expression or function of SDS3

can lead to inappropriate transcriptional repression of tumor suppressor genes contributing to unchecked cell growth. Additionally SDS3 is associated with neurodegenerative disorders due to its role in gene expression regulation in neural cells. In these conditions SDS3 may interact with other proteins such as SIN3A and RBBP4 further impacting gene expression profiles.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

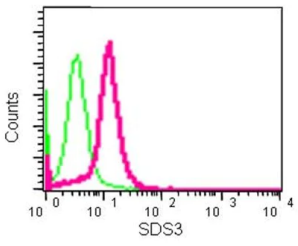
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

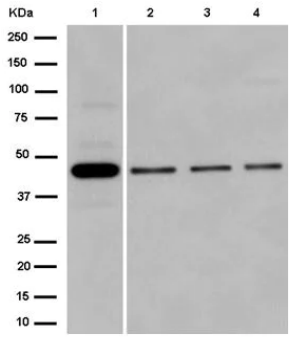
2 product images



Flow Cytometry (Intracellular) - Anti-SDS3 antibody [EPR15000] (ab184555)

SDS3 Flow Cytometry (Intracellular) staining using rabbit Anti-SDS3 antibody

Intracellular flow cytometric analysis of 2% paraformaldehyde-fixed HeLa cells labeling SDS3 with ab184555 at 1/250 dilution (red) compared to a Rabbit monoclonal isotype control (green), followed by Goat anti-rabbit IgG (FITC) secondary antibodyat 1/150 dilution.



Western blot - Anti-SDS3 antibody [EPR15000] (ab184555)

All lanes:
Western blot - Anti-SDS3 antibody [EPR15000] (ab184555) at 1/1000 dilution

Lane 1:
Raji cell lysate at 20 µg

Lane 2:
HeLa cell lysate at 20 µg

Lane 3:
K562 cell lysate at 20 µg

Lane 4:
Molt-4 cell lysate at 20 µg

Secondary

All lanes:
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

Predicted band size: 38 kDa

Observed band size: 45 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.