abcam

ab250757

Anti-SDS3 antibody [EPR15000] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR15000
Purification technique	Affinity purification Protein A

Reactivity data

WB

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

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	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab250757 is the carrier-free version of ab184555.

Conjugation ready

Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility

This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

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

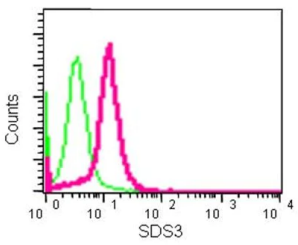
We do not recommend this combination. It is not covered by our product promise.

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.

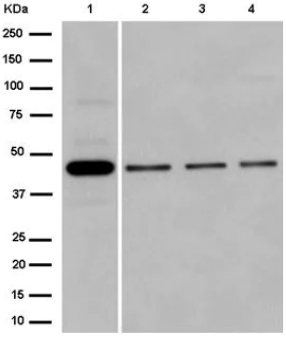
2 product images



Flow Cytometry (Intracellular) - Anti-SDS3 antibody [EPR15000] - BSA and Azide free (ab250757)

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

This data was developed using ab184555, the same antibody clone in a different buffer formulation.
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 antibody at 1/150 dilution.



Western blot - Anti-SDS3 antibody [EPR15000] - BSA and Azide free (ab250757)

This data was developed using ab184555, the same antibody clone in a different buffer formulation.
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'.