abcam

ab181867

Anti-SART1 antibody [EPR14563(B)]

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	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	EPR14563(B)
Purification technique	Affinity purification Protein A
Concentration	0.808 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Human
Dilution info	1/10000 - 1/50000
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/250
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/150
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 U4/U6.U5 tri-snRNP-associated protein 1

Function	Plays a role in mRNA splicing as a component of the U4/U6-U5 tri-snRNP, one of the building blocks of the spliceosome. May also bind to DNA.

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	SART1 also known as Squamous Cell Carcinoma Antigen Recognized by T-cells 1 or RNA Binding Motif Protein 25 (RBM25) plays an essential role in RNA splicing. This protein has an approximate mass of 110 kDa and is expressed ubiquitously in various tissues with higher levels observed in testis and cancer cells. As part of the spliceosome SART1 helps facilitate the assembly of spliceosomal snRNPs specifically U4/U6-U5 tri-snRNP an important component for proper splicing events.

Biological function summary	SART1 involves itself deeply in the regulation of mRNA maturation and stability. It participates in the spliceosome complex where it contributes to the splicing of precursor-mRNA into mature mRNA which is necessary for accurate gene expression. The presence of SART1 ensures the correct removal of introns from pre-mRNA an essential step for producing functional proteins in cells.
Pathways	The involvement in mRNA splicing positions SART1 within the gene expression pathway. It collaborates with other proteins like SF3A1 and SF3B1 integral to the spliceosome's functioning and it also indirectly influences pathways such as the cell cycle regulation by ensuring accurate gene expression. Disruptions in pathways involving SART1 can lead to erroneous splicing and subsequent protein malfunction.
Associated diseases and disorders	Disruptions in SART1 expression or function can relate to cancer and autoimmune diseases. Aberrant splicing due to SART1 anomalies contributes to tumorigenesis seen in several forms of cancer including colorectal cancer. Additionally SART1's dysregulation can connect to proteins like PKM where mis-splicing can influence cancer metabolism. It also plays a role in autoimmune conditions as faulty splicing can trigger immune system malfunctions.

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

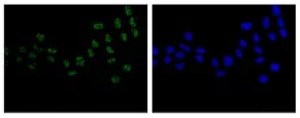
We do not recommend this combination. It is not covered by our product promise.

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.

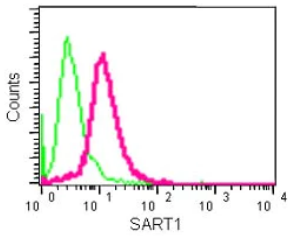
3 product images



Immunocytochemistry/ Immunofluorescence - Anti-SART1 antibody [EPR14563(B)] (ab181867)

SART1 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-SART1 antibody

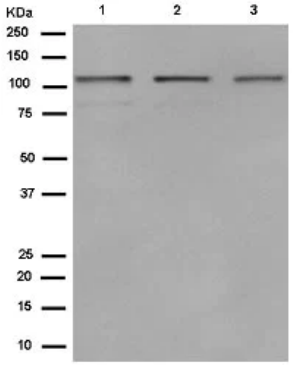
Immunofluorescent analysis of HeLa cells (-20°C Acetone-fixed) labeling SART1 with ab181867 at 1/250 dilution followed by Goat anti rabbit IgG (AlexaFluor® 488) secondary at 1/200 dilution and counter-stained with DAPI (blue).



Flow Cytometry (Intracellular) - Anti-SART1 antibody [EPR14563(B)] (ab181867)

SART1 Flow Cytometry (Intracellular) staining using rabbit Anti-SART1 antibody

Intracellular flow cytometric analysis of Jurkat cells (paraformaldehyde-fixed, 2%) labeling SART1 with ab181867 at 1/150 dilution (red) or a rabbit IgG (negative) (green), followed by Goat anti rabbit IgG (FITC) secondary at 1/150 dilution.



Western blot - Anti-SART1 antibody [EPR14563(B)] (ab181867)

All lanes:
Western blot - Anti-SART1 antibody [EPR14563(B)] (ab181867) at 1/50000 dilution

Lane 1:
HeLa cell lysate at 20 µg

Lane 2:
Jurkat cell lysate at 20 µg

Lane 3:
MOLT4 cell lysate at 20 µg

Secondary

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

Predicted band size: 90 kDa

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