abcam

ab247581

Anti-SAA4 antibody [EPR2926] - 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	EPR2926
Purification technique	Affinity purification
Concentration	1.02 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Not recommended

Species	Human
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

IHC-P

Tested

Species	Human
Dilution info	-
Notes	-

Target data

See full target information SAA4

Function	Major acute phase reactant.

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

ab247581 is the carrier-free version of ab92540.

Species reactivity

Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

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.

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	Serum Amyloid A4 (SAA4) also known as C-SAA is a minor apolipoprotein associated with high-density lipoprotein (HDL) in plasma. SAA4 is a protein of approximately 14 kDa in mass. It is mainly expressed in the liver and secreted into the bloodstream. The protein exists in a tetrameric form and is part of the SAA family which has four known human isoforms: SAA1 SAA2 SAA3 and SAA4.

Biological function summary	SAA4 plays a role in lipid metabolism and transport. Unlike SAA1 and SAA2 SAA4 is not significantly upregulated during acute-phase inflammatory responses. SAA4 works by stabilizing HDL particles and influencing cholesterol transport. It does not participate actively in the inflammatory response which distinguishes it from other SAA proteins. As part of the lipoprotein complex it contributes to maintaining lipid homeostasis.
Pathways	SAA4 participates in pathways associated with lipid transport and metabolism. It is involved in the reverse cholesterol transport pathway an essential system to transfer cholesterol from tissues back to the liver. SAA4 shares functional characteristics with apolipoprotein A1 (ApoA1) another key protein in HDL metabolism. Both proteins contribute to cholesterol efflux and transport although SAA4 has more structural than regulatory roles.
Associated diseases and disorders	SAA4 has connections to cardiovascular disease and amyloidosis. Researchers have identified altered levels of SAA4 in patients with cardiovascular conditions suggesting a link to atherosclerosis. In amyloidosis although SAA4 is not a primary amyloid component its amyloidogenic potential raises interest in studying its involvement. A clear association exists between SAA4 and ApoA1 in these disorders given their shared role in HDL structure and metabolism.

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

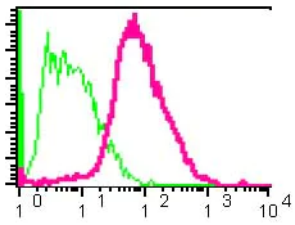
We do not recommend this combination. It is not covered by our product promise.

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.

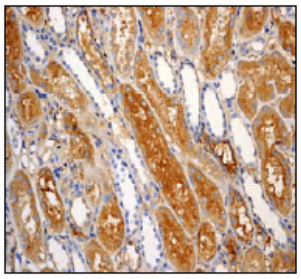
3 product images



Flow Cytometry (Intracellular) - Anti-SAA4 antibody [EPR2926] - BSA and Azide free (ab247581)

SAA4 Flow Cytometry (Intracellular) staining using rabbit Anti-SAA4 antibody

This data was developed using ab92540, the same antibody clone in a different buffer formulation. Intracellular Flow Cytometry analysis of SAA4 expression in HepG2 cells using ab92540 (red) at 1/20 dilution and a control Rabbit IgG (green).

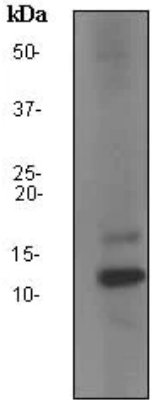


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SAA4 antibody [EPR2926] - BSA and Azide free (ab247581)

SAA4 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-SAA4 antibody

This data was developed using ab92540, the same antibody clone in a different buffer formulation. ab92540, at 1/50 dilution, staining SAA4 in formalin-fixed, paraffin-embedded Human normal kidney tissue by immunohistochemistry.

Perform heat mediated antigen retrieval via the microwave method before commencing with IHC staining protocol.



Western blot - Anti-SAA4 antibody [EPR2926] - BSA and Azide free (ab247581)

SAA4 Western blot staining of Human plasma lysate using rabbit Anti-SAA4 antibody

This data was developed using ab92540, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-SAA4 antibody [EPR2926] (ab92540) at 1/1000 dilution

All lanes:
Human plasma lysate at 10 µg

Secondary

All lanes:
HRP labelled Goat anti-Rabbit IgG at 1/2000 dilution

Predicted band size: 15 kDa

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