abcam

ab275887

Anti-Resistin antibody [EPR23334-171] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR23334-171
Purification technique	Affinity purification Protein A
Concentration	1.037 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

ICC/IF

Not recommended

Species	Human, Mouse, Rat
Dilution info	-

Notes	-

IP

Tested

Species	Human
Dilution info	-
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	-
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information RETN

Function	Hormone that seems to suppress insulin ability to stimulate glucose uptake into adipose cells (By similarity). Potentially links obesity to diabetes (By similarity). Promotes chemotaxis in myeloid cells (PubMed:15064728).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C

Notes

ab275887 is the carrier-free version of ab275878.

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	Resistin also known as FIZZ3 or ADSF is a protein with a mass of approximately 12.5 kDa. It is mainly expressed in adipose tissue and secreted by adipocytes. In human beings it is also found in inflammatory zones like macrophages and the placenta. Resistin functions as a signaling molecule or cytokine which plays roles in inflammation and metabolism.
Biological function summary	Resistin affects glucose homeostasis and has been shown to modulate insulin resistance. It does not function as part of a larger protein complex but instead acts through specific receptors on cell surfaces. Resistin influences several cellular processes including energy balance and the modulation of inflammatory responses.
Pathways	Several processes contribute to the detailed function of resistin. It is involved in the insulin signaling pathway and the inflammatory pathway. Resistin interacts with proteins and receptors like TLR4 which have key roles in inflammatory response signaling and metabolic regulation. These interactions can disrupt insulin signaling and glucose uptake in many cell types.
Associated diseases and disorders	Resistin has connections to type 2 diabetes and obesity. Its role in insulin resistance makes it a significant molecule in the pathophysiology of type 2 diabetes. Additionally resistin can influence obesity through its effect on energy balance and fat distribution. Resistin's relationship with proteins like TNF-alpha and IL-6 further emphasizes its role in linking metabolic syndrome with chronic inflammatory states.

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.

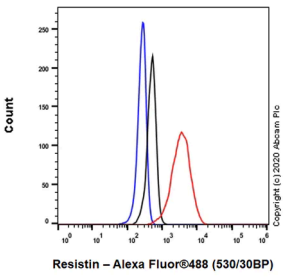
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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.

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5 product images

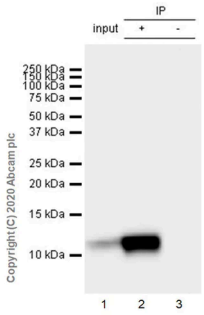


Flow Cytometry (Intracellular) - Anti-Resistin antibody [EPR23334-171] - BSA and Azide free (ab275887)

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

This data was developed using ab275878, the same antibody clone in a different buffer formulation.
Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol-permeabilized U937 (human histiocytic lymphoma monocyte) cells labelling Resistin with ab275878 at 1/500 dilution (0.1µg)/ (Red) compared with a Rabbit monoclonal IgG (ab172730) isotype control (Black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue).

A Goat anti rabbit IgG (Alexa Fluor®488, ab150077) at 1/2000 dilution was used as the secondary antibody.



Immunoprecipitation - Anti-Resistin antibody [EPR23334-171] - BSA and Azide free (ab275887)

This data was developed using ab275878, the same antibody clone in a different buffer formulation.
Resistin was immunoprecipitated from 0.35 mg U937 (human histiocytic lymphoma monocyte) whole cell lysate with ab275878 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab275878 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP)(ab131366) was used at 1/1000 dilution.

Lane 1: U937 whole cell lysate 10 µg

Lane 2: ab275878 IP in U937 whole cell lysate

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab275878 in U937 whole cell lysate

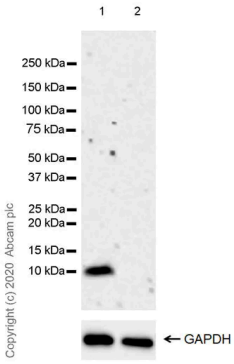
Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 5.5 seconds.

All lanes:
Immunoprecipitation - Anti-Resistin antibody [EPR23334-171] (ab275878)

Predicted band size: 11 kDa

Observed band size: 11 kDa



Western blot - Anti-Resistin antibody [EPR23334-171] - BSA and Azide free (ab275887)

Resistin Western blot staining using rabbit Anti-Resistin antibody

This data was developed using ab275878, the same antibody clone in a different buffer formulation.
Blocking and diluting buffer and concentration: 5% NFDM/TBST.

The expression profile observed is consistent with what has been described in the literature (PMID:16532325, 14550293).

Low expression: THP-1 (PMID:16532325).

This blot was developed using a higher sensitivity ECL substrate.

Exposure time: 3 minutes.

All lanes:
Western blot - Anti-Resistin antibody [EPR23334-171] (ab275878) at 1/1000 dilution

Lane 1:
U937 (human histiocytic lymphoma monocyte) whole cell lysate at 20 µg

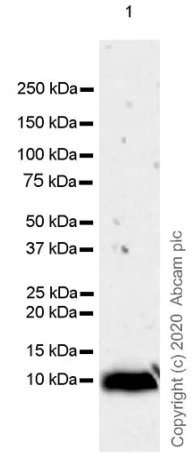
Lane 2:
THP-1 (human monocytic leukemia monocyte) whole cell lysate at 20 µg

Secondary

All lanes:
VeriBlot for IP secondary antibody(HRP)(ab131366) at 1/1000 dilution

Predicted band size: 11 kDa

Observed band size: 11 kDa



Western blot - Anti-Resistin antibody [EPR23334-171] - BSA and Azide free (ab275887)

This data was developed using ab275878, the same antibody clone in a different buffer formulation.
Blocking and diluting buffer and concentration: 5% NFDM/TBST.

This blot was developed using a higher sensitivity ECL substrate.

Exposure time: 3 minutes.

All lanes:
Western blot - Anti-Resistin antibody [EPR23334-171] (ab275878) at 1/1000 dilution

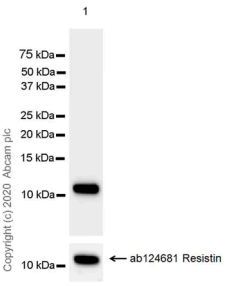
All lanes:
Human white fat tissue lysate at 20 µg

Secondary

All lanes:
VeriBlot for IP secondary antibody(HRP)(ab131366) at 1/1000 dilution

Predicted band size: 11 kDa

Observed band size: 11 kDa



Western blot - Anti-Resistin antibody [EPR23334-171] - BSA and Azide free (ab275887)

This data was developed using ab275878, the same antibody clone in a different buffer formulation.
Blocking and diluting buffer and concentration: 5% NFDM/TBST.

Exposure time: 15 seconds.

All lanes:
Western blot - Anti-Resistin antibody [EPR23334-171] (ab275878) at 1/1000 dilution

All lanes:
Recombinant human Resistin protein, 20 ng

Secondary

All lanes:
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ab97051) at 1/50000 dilution

Predicted band size: 11 kDa

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