abcam

ab240589

Anti-Visfatin antibody [EPR21980] - 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	EPR21980
Purification technique	Affinity purification Protein A
Concentration	1.013 - 1.052 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Human
Dilution info	-

Notes	-

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Rat
Dilution info	-
Notes	-

WB

Expected

Species	Mouse, Rat, Human
Dilution info	Use at an assay dependent concentration.
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	-
Notes	-

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Rat
Dilution info	-
Notes	-

IHC-P

Tested

Species	Mouse
Dilution info	-
Notes	Heat mediated antigen retrieval using ab93684 (Tris/EDTA buffer, pH 9.0).

Expected

Species	Human

Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Rat
Dilution info	-
Notes	-

Target data

See full target information NAMPT

Function

Catalyzes the condensation of nicotinamide with 5-phosphoribosyl-1-pyrophosphate to yield nicotinamide mononucleotide, an intermediate in the biosynthesis of NAD. It is the rate limiting component in the mammalian NAD biosynthesis pathway. The secreted form behaves both as a cytokine with immunomodulating properties and an adipokine with anti-diabetic properties, it has no enzymatic activity, partly because of lack of activation by ATP, which has a low level in extracellular space and plasma. Plays a role in the modulation of circadian clock function. NAMPT-dependent oscillatory production of NAD regulates oscillation of clock target gene expression by releasing the core clock component: CLOCK-BMAL1 heterodimer from NAD-dependent SIRT1-mediated suppression (By similarity).

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

ab240589 is the carrier-free version of ab236874.

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.

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

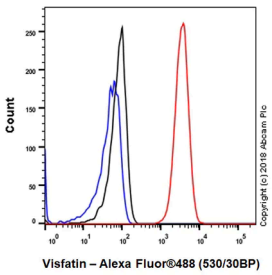
We do not recommend this combination. It is not covered by our product promise.

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.

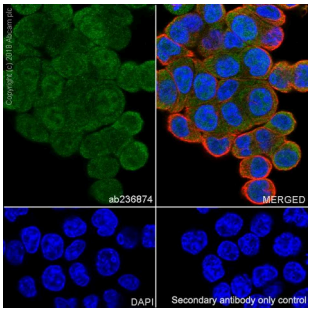
9 product images



Flow Cytometry (Intracellular) - Anti-Visfatin antibody [EPR21980] - BSA and Azide free (ab240589)

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

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol permeabilized HCT 116 (human colorectal carcinoma epithelial cell) cell line labeling Visfatin with ab236874 at 1/500 dilution (Red) compared with the Rabbit monoclonal IgG (ab172730, Black) isotype control and an unlabeled control (cells without incubation with primary antibody and secondary antibody, Blue). Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) at 1/2000 dilution was used as the secondary antibody.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab236874).

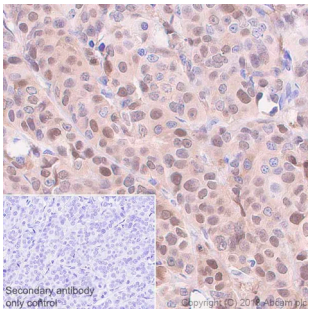


Immunocytochemistry/ Immunofluorescence - Anti-Visfatin antibody [EPR21980] - BSA and Azide free (ab240589)

Visfatin Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-Visfatin antibody

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HCT 116 (human colorectal carcinoma epithelial cell) cells labeling Visfatin (Green) with ab236874 at 1/100 dilution, followed by AlexaFluor®488 Goat anti-Rabbit secondary (ab150077) at 1/1000 dilution. Confocal image showing cytoplasmic and nuclear staining in HCT 116 cell line is observed. The nuclear counterstain is DAPI (Blue). Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) (ab195889) was used as the counterstain (Red) at 1/200 dilution.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Alexa-Fluor®488 Goat anti-Rabbit secondary (ab150077) at 1/1000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab236874).



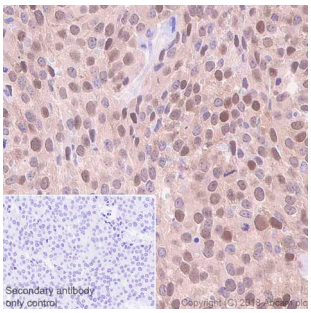
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Visfatin antibody [EPR21980] - BSA and Azide free (ab240589)

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

Immunohistochemical analysis of paraffin-embedded human breast cancer tissue labeling Visfatin using ab236874 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ready to use. Nuclear and cytoplasmic staining in human breast cancer (PMID:21784959) is observed. Counterstained with Hematoxylin.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ready to use.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab236874).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



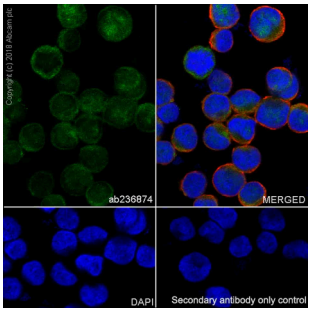
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Visfatin antibody [EPR21980] - BSA and Azide free (ab240589)

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

Immunohistochemical analysis of paraffin-embedded human bladder cancer tissue labeling Visfatin using ab236874 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ready to use. Nuclear and cytoplasmic staining in human bladder cancer (PMID:26396920) is observed. Counterstained with Hematoxylin.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ready to use.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol and sodium azide (ab236874).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

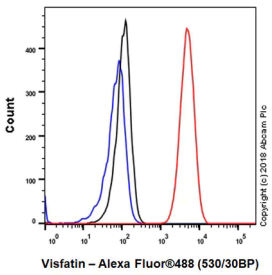


Immunocytochemistry/ Immunofluorescence - Anti-Visfatin antibody [EPR21980] - BSA and Azide free (ab240589)

Visfatin Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-Visfatin antibody

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized K562 (human chronic myelogenous leukemia lymphoblast) cells labeling Visfatin (Green) with ab236874 at 1/100 dilution, followed by AlexaFluor®488 Goat anti-Rabbit secondary (ab150077) at 1/1000 dilution. Confocal image showing cytoplasmic and nuclear staining in K562 cell line is observed. The nuclear counterstain is DAPI (Blue). Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) (ab195889) was used as the counterstain (Red) at 1/200 dilution.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Alexa-Fluor®488 Goat anti-Rabbit secondary (ab150077) at 1/1000 dilution.

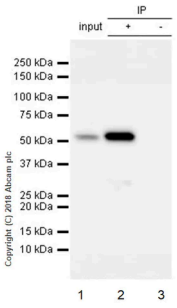
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab236874).



Flow Cytometry (Intracellular) - Anti-Visfatin antibody [EPR21980] - BSA and Azide free (ab240589)

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

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol permeabilized K562 (human chronic myelogenous leukemia lymphoblast) cell line labeling Visfatin with ab236874 at 1/500 dilution (Red) compared with the Rabbit monoclonal IgG (ab172730, Black) isotype control and an unlabeled control (cells without incubation with primary antibody and secondary antibody, Blue). Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) at 1/2000 dilution was used as the secondary antibody.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab236874).



Immunoprecipitation - Anti-Visfatin antibody [EPR21980] - BSA and Azide free (ab240589)

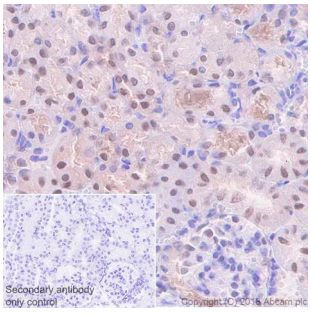
Visfatin was immunoprecipitated from 0.35 mg of K562 (human chronic myelogenous leukemia lymphoblast) whole cell lysate with ab236874 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab236874 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366) was used for detection at 1/5000 dilution.
Lane 1: K562 whole cell lysate 10 µg (input).
Lane 2: ab236874 IP in K562 whole cell lysate.
Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab236874 in K562 whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.
Exposure time: 30 seconds.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab236874).

All lanes:
Immunoprecipitation - Anti-Visfatin antibody [EPR21980] (ab236874)

Predicted band size: 55 kDa



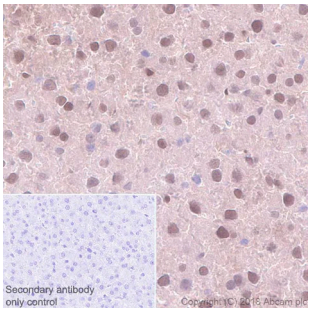
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Visfatin antibody [EPR21980] - BSA and Azide free (ab240589)

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

Immunohistochemical analysis of paraffin-embedded mouse kidney tissue labeling Visfatin using ab236874 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ready to use. Nuclear and cytoplasmic staining in mouse kidney (PMID: 29104634; PMID:24287278) is observed. Counterstained with Hematoxylin.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ready to use.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab236874).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Visfatin antibody [EPR21980] - BSA and Azide free (ab240589)

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

Immunohistochemical analysis of paraffin-embedded rat liver tissue labeling Visfatin using ab236874 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ready to use. Nuclear

and cytoplasmic staining in rat liver (PMID: 29104634; PMID:24603648) is observed. Counterstained with Hematoxylin.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ready to use.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab236874).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

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