abcam

ab236874

Anti-Visfatin antibody [EPR21980]

Anti-Visfatin antibody [EPR21980] (ab236874) is a rabbit monoclonal antibody detecting Visfatin in **Western Blot, Flow Cytometry (Intra), IP, IHC-P, ICC/IF**. Suitable for **Human, Mouse, Rat**.

- Biophysical QC for unrivalled batch-batch consistency
- Over 10 publications

Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 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	EPR21980
Purification technique	Affinity purification Protein A
Concentration	0.55 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Human

Dilution info	1/30
Notes	-

Expected

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

WB

Tested

Species	Mouse
Dilution info	1/1000
Notes	-

Species	Rat
Dilution info	1/1000
Notes	-

Species	Human
Dilution info	1/1000
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/100
Notes	-

Expected

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

Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/500
Notes	-

Expected

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

IHC-P

Tested

Species	Mouse
Dilution info	1/2000
Notes	Heat mediated antigen retrieval using ab93684 (Tris/EDTA buffer, pH 9.0). Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Rat
Dilution info	1/2000
Notes	Heat mediated antigen retrieval using ab93684 (Tris/EDTA buffer, pH 9.0). Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Human
Dilution info	1/2000
Notes	Heat mediated antigen retrieval using ab93684 (Tris/EDTA buffer, pH 9.0). Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

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	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

What is this antibody validated in?
Anti-Visfatin antibody [EPR21980] (ab236874) is a rabbit recombinant monoclonal antibody and is validated for use in Western Blot (WB), Flow Cytometry (Intra), Immunoprecipitation (IP), Immunohistochemistry (IHC-P), Immunocytochemistry/immunofluorescence (ICC/IF) in Human, Mouse, Rat samples.

What is the molecular weight of Visfatin?
Anti-Visfatin [EPR21980] (ab236874) specifically detects a band for Visfatin (UniProt: P43490) at a molecular weight of 55kDa.

Trusted by the scientific community
Anti-Visfatin [EPR21980] (ab236874) was first used in a scientific publication in 2018 and has been cited over 10 times in peer-reviewed journals.

Other related products

We have a range of other formats of antibody clone [EPR21980] also available for your convenience: ab236874, Carrier free - ab240589, Carrier free - ab267449, Alexa Fluor® 647 - ab318236, Alexa Fluor® 488 - ab319013

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.

Trial sizes available!
Test your antibody or perform pre-screening before committing to a larger quantity. Sold in 20µl. Discover our selection of trial-size antibodies.

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

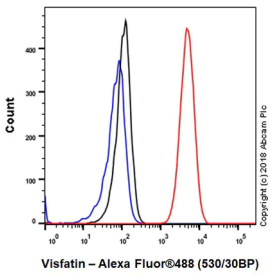
We do not recommend this combination. It is not covered by our product promise.

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.

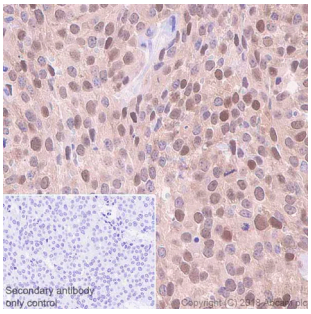
11 product images



Flow Cytometry (Intracellular) - Anti-Visfatin antibody [EPR21980] (ab236874)

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.

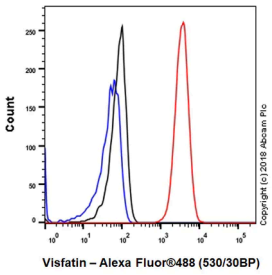


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Visfatin antibody [EPR21980] (ab236874)

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.

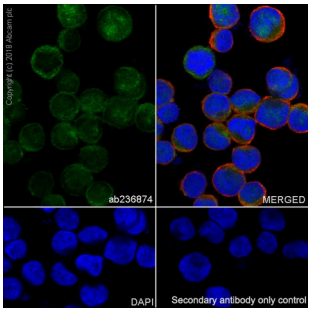
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-Visfatin antibody [EPR21980] (ab236874)

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

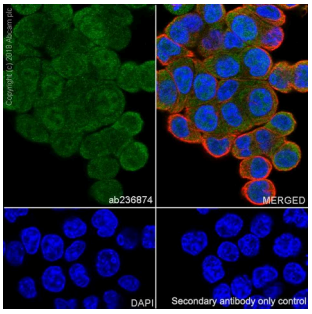
Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol permeabilized HCT 116 (human colorectal carcinoma epithelial cell) cell line labeling Visfatin with ab236874 at 1/500 dilution (Red) compared with the Rabbit monoclonal IgG (ab172730, Black) isotype control and an unlabeled 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.



Immunocytochemistry/ Immunofluorescence - Anti-Visfatin antibody [EPR21980] (ab236874)

Visfatin Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-Visfatin antibody

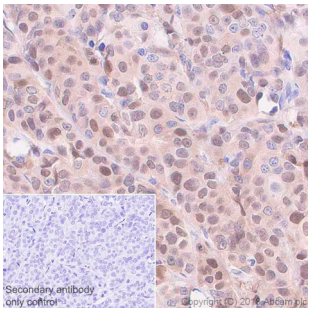
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized K562 (human chronic myelogenous leukemia lymphoblast) cells labeling Visfatin (Green) with ab236874 at 1/100 dilution, followed by AlexaFluor®488 Goat anti-Rabbit secondary (ab150077) at 1/1000 dilution. Confocal 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.



Immunocytochemistry/ Immunofluorescence - Anti-Visfatin antibody [EPR21980] (ab236874)

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.

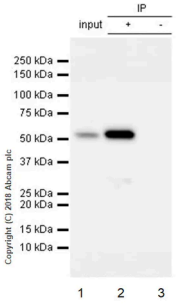


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Visfatin antibody [EPR21980] (ab236874)

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.

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



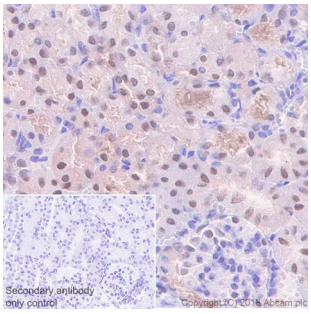
Immunoprecipitation - Anti-Visfatin antibody [EPR21980] (ab236874)

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.

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

Predicted band size: 55 kDa

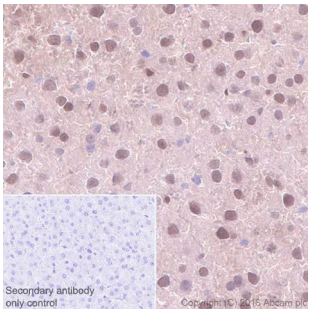


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Visfatin antibody [EPR21980] (ab236874)

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.

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

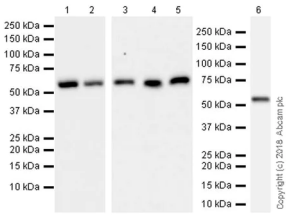


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Visfatin antibody [EPR21980] (ab236874)

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.

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



Western blot - Anti-Visfatin antibody [EPR21980] (ab236874)

Blocking/Diluting buffer and concentration: 5% NFDM/TBST
Exposure times:
Lanes 1-2: 26 seconds
Lanes 3-5: 92 seconds
Lane 6: 3 minutes

Lane 6 was developed using a higher sensitivity ECL substrate.

The molecular weight observed is consistent with what has been described in the literature (PMID:25368373, PMID:12782293).

All lanes:
Western blot - Anti-Visfatin antibody [EPR21980] (ab236874) at 1/1000 dilution

Lane 1:
K562 (human chronic myelogenous leukemia lymphoblast), whole cell lysate at 20 µg

Lane 2:
Raji (human Burkitt's lymphoma B lymphocyte), whole cell lysate at 20 µg

Lane 3:
HeLa (human cervix adenocarcinoma epithelial cell), whole cell lysate at 20 µg

Lane 4:
HT-1080 (human fibrosarcoma epithelial cell), whole cell lysate at 20 µg

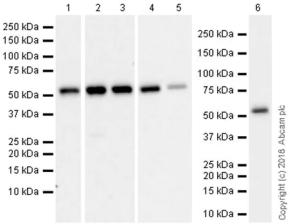
Lane 5:
PC-3 (human prostate adenocarcinoma epithelial cell), whole cell lysate at 20 µg

Lane 6:
Human fetal kidney lysate at 10 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 55 kDa



Western blot - Anti-Visfatin antibody [EPR21980] (ab236874)

Visfatin Western blot staining using rabbit Anti-Visfatin antibody

Blocking/Diluting buffer and concentration: 5% NFDM/TBST
Exposure time:
Lanes 1-3: 40 seconds
Lanes 4-5: 3 minutes
Lane 6: 15 seconds

The molecular weight observed is consistent with what has been described in the literature (PMID:25368373, PMID:12782293).

All lanes:
Western blot - Anti-Visfatin antibody [EPR21980] (ab236874) at 1/1000 dilution

Lane 1:
MCF7 (human breast adenocarcinoma epithelial cell), whole cell lysate at 20 µg

Lane 2:

HCT 116 (human colorectal carcinoma epithelial cell), whole cell lysate at 20 µg

Lane 3:
HT-1080 (human fibrosarcoma epithelial cell), whole cell lysate at 20 µg

Lane 4:
C6 (rat glial tumor glial cell), whole cell lysate at 20 µg

Lane 5:
PC-12 (rat adrenal gland pheochromocytoma), whole cell lysate at 20 µg

Lane 6:
RAW264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage), whole cell lysate at 10 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 55 kDa

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