abcam

ab236873

Anti-Visfatin antibody [EPR21984]

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	EPR21984
Purification technique	Affinity purification Protein A
Concentration	0.491 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	-

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	1/1000
Notes	-

Species	Rat
Dilution info	1/1000
Notes	-

Species	Human
Dilution info	1/1000
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	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.

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

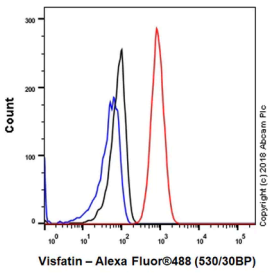
We do not recommend this combination. It is not covered by our product promise.

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.

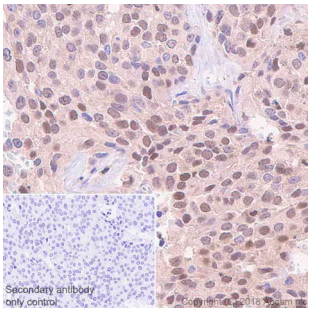
9 product images



Flow Cytometry (Intracellular) - Anti-Visfatin antibody [EPR21984] (ab236873)

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 cell line) cell line labeling Visfatin with ab236873 at 1/500 (red) compared with a Rabbit monoclonal IgG (ab172730) (black) and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) at 1/2000 dilution was used as the secondary antibody

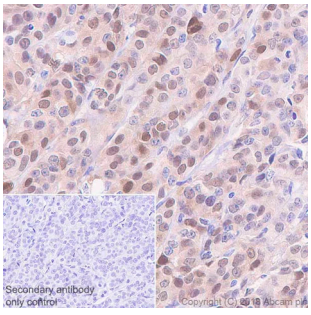


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Visfatin antibody [EPR21984] (ab236873)

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 with ab236873 at 1/1000 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. Counter stained 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.

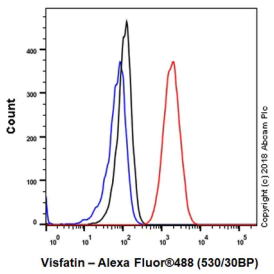
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Visfatin antibody [EPR21984] (ab236873)

Immunohistochemical analysis of paraffin-embedded human breast cancer tissue labeling Visfatin with ab236873 at 1/1000 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. Counter stained 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.

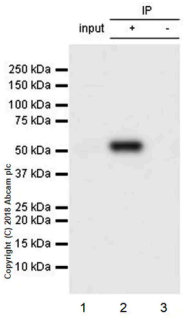
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-Visfatin antibody [EPR21984] (ab236873)

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 cell line from bone marrow) cell line labeling Visfatin with ab236873 at 1/500 (red) compared with a Rabbit monoclonal IgG (ab172730) (black) and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) at 1/2000 dilution was used as the secondary antibody



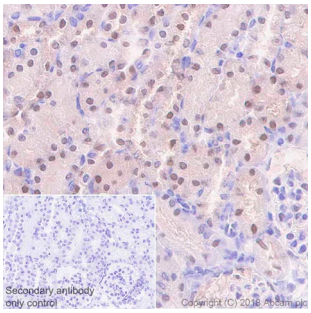
Immunoprecipitation - Anti-Visfatin antibody [EPR21984] (ab236873)

Visfatin was immunoprecipitated from 0.35 mg HCT 116 (human colorectal carcinoma cell line) whole cell lysate with ab236873 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab236873 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366), was used for detection at 1/5000 dilution.
Lane 1: HTC 116 whole cell lysate 10 µg (Input).
Lane 2: ab236873 IP in HCT 116 whole cell lysate (+).
Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab236873 in HCT 116 whole cell lysate (-).

Blocking/Dilution buffer and concentration: 5% NFDM/TBST.
Exposure time: 1 second.

All lanes:
Immunoprecipitation - Anti-Visfatin antibody [EPR21984] (ab236873)

Predicted band size: 55 kDa

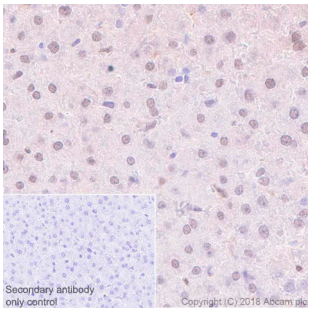


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Visfatin antibody [EPR21984] (ab236873)

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

Immunohistochemical analysis of paraffin-embedded mouse kidney tissue labeling Visfatin with ab236873 at 1/1000 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. Counter stained 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.

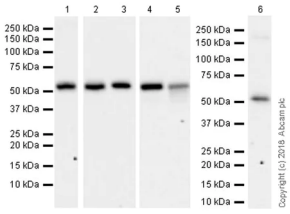


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Visfatin antibody [EPR21984] (ab236873)

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

Immunohistochemical analysis of paraffin-embedded rat liver tissue labeling Visfatin with ab236873 at 1/1000 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. Counter stained 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 [EPR21984] (ab236873)

Exposure time : Lanes 1-3: 37 seconds; Lanes 4-5: 8 seconds; Lane 6: 26 seconds.
Blocking and diluting buffer: 5% NFDM/TBST.

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 [EPR21984] (ab236873) at 1/1000 dilution

Lane 1:
Jurkat (human T cell leukemia cell line from peripheral blood) whole cell lysate at 20 µg

Lane 2:
HT1080 (human fibrosarcoma cell line) whole cell lysate at 20 µg

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

Lane 4:
NCI-H460 (human lung cancer cell line) whole cell lysate at 20 µg

Lane 5:
Human breast cancer lysate at 20 µg

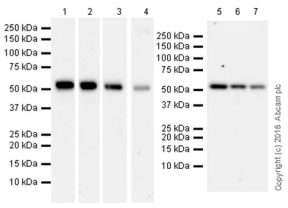
Lane 6:
K562 (human chronic myelogenous leukemia cell line from bone marrow) whole cell lysate at 10 µg

Secondary

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

Predicted band size: 55 kDa

Observed band size: 56 kDa



Western blot - Anti-Visfatin antibody [EPR21984] (ab236873)

Visfatin Western blot staining using rabbit Anti-Visfatin antibody

Blocking and diluting buffer: 5% NFDM/TBST.
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 [EPR21984] (ab236873) at 1/1000 dilution

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

Lane 2:
HCT 116 (human colorectal carcinoma cell line) whole cell lysate at 20 µg

Lane 3:
PC-12 (rat adrenal gland pheochromocytoma cell line) whole cell lysate at 20 µg

Lane 4:
C2C12 (mouse myoblast cell line) whole cell lysate at 20 µg

Lane 5:
Human fetal brain lysate at 10 µg

Lane 6:
Human heart lysate at 10 µg

Lane 7:
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

Observed band size: 56 kDa

Exposure time: 3min

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