

Product datasheet

Anti-Visfatin antibody [EPR21980] ab236874

Recombinant RabMAb

[11 References](#) [12 Images](#)

Overview

Product name	Anti-Visfatin antibody [EPR21980]
Description	Rabbit monoclonal [EPR21980] to Visfatin
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF, IP, Flow Cyt (Intra)
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: K562, Raji, HeLa, HT-1080, PC-3, MCF7, HCT 116, C6, PC-12 and Raw 264.7 whole cell lysate; Human fetal kidney lysate. IHC-P: Human bladder cancer and breast cancer tissue; Mouse kidney tissue; Rat liver tissue. ICC/IF: HCT 116 and K562 cells. Flow: K562 and HCT 116 cells. IP: K562 whole cell lysate.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR21980

Isotype

IgG

Applications

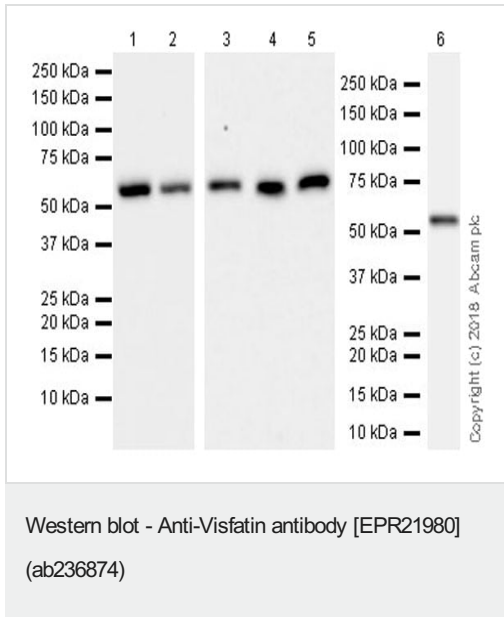
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab236874 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Predicted molecular weight: 55 kDa.
IHC-P		1/2000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. Heat mediated antigen retrieval using ab93684 (Tris/EDTA buffer, pH 9.0).
ICC/IF		1/100.
IP		1/30.
Flow Cyt (Intra)		1/500.

Target

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.
Tissue specificity	Expressed in large amounts in bone marrow, liver tissue, and muscle. Also present in heart, placenta, lung, and kidney tissues.
Pathway	Cofactor biosynthesis; NAD(+) biosynthesis; nicotinamide D-ribonucleotide from 5-phospho-alpha-D-ribose 1-diphosphate and nicotinamide: step 1/1.
Sequence similarities	Belongs to the NAPRTase family.
Cellular localization	Cytoplasm.

Images



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

Predicted band size: 55 kDa

Blocking/Diluting buffer and concentration: 5% NFDM/TBST

Exposure times:

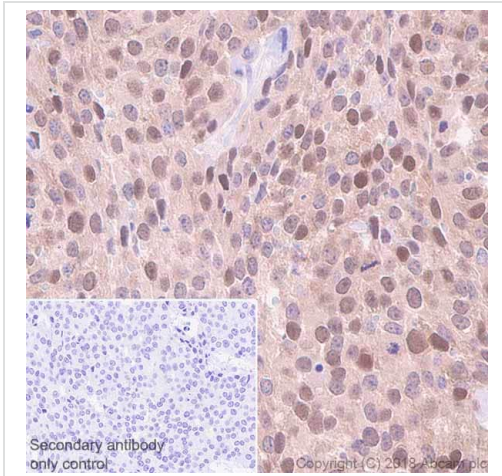
Lanes 1-2: 26 seconds

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).



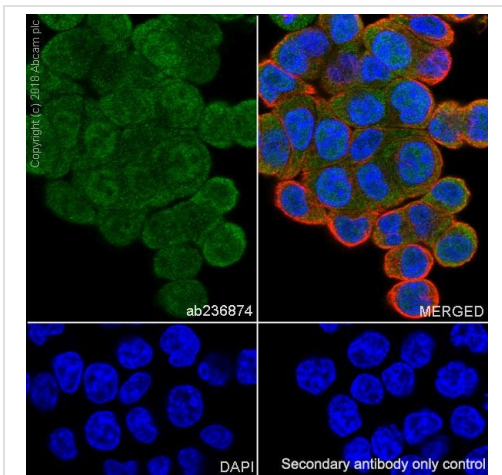
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Visfatin antibody [EPR21980] (ab236874)

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.



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

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.



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.

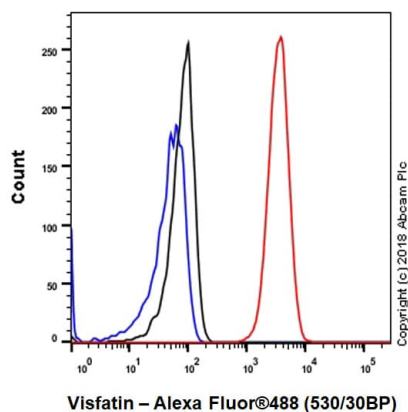
Lane 1: K562 whole cell lysate 10 µg (input).

Lane 2: ab236874 IP in K562 whole cell lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab236874 in K562 whole cell lysate.

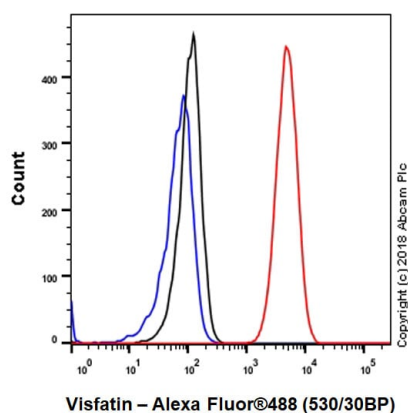
Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 30 seconds.



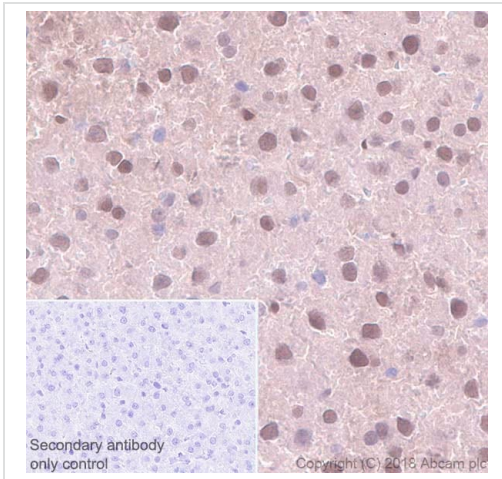
Flow Cytometry (Intracellular) - Anti-Visfatin antibody
[EPR21980] (ab236874)

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.



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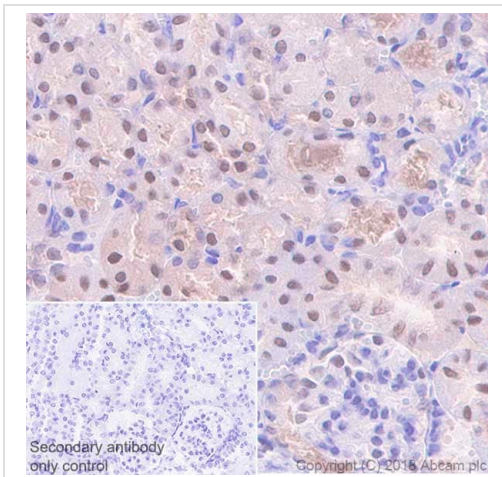


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Visfatin antibody [EPR21980] (ab236874)

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.

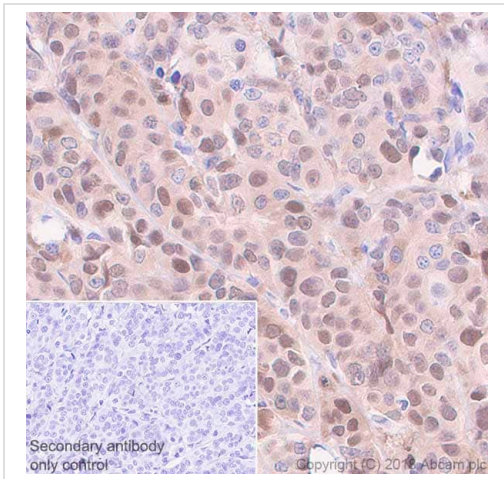


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Visfatin antibody [EPR21980] (ab236874)

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.

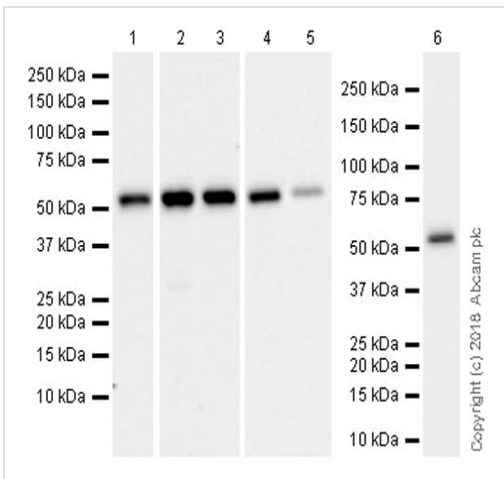


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Visfatin antibody [EPR21980] (ab236874)

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.



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

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

Predicted band size: 55 kDa

Blocking/Diluting buffer and concentration: 5% NFD/MTBST

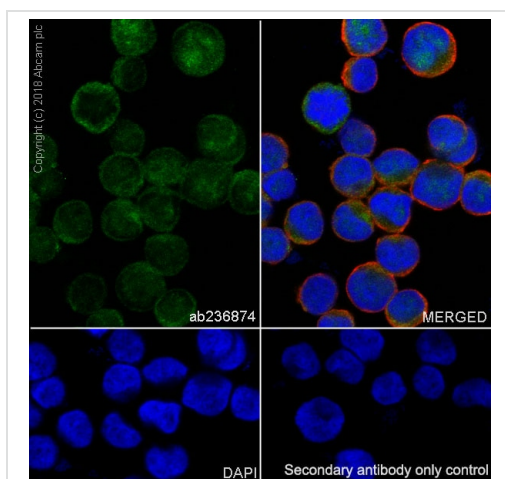
Exposure time:

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).



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

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.

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Why choose a recombinant antibody?

- Research with confidence**
Consistent and reproducible results
- Long-term and scalable supply**
Recombinant technology
- Success from the first experiment**
Confirmed specificity
- Ethical standards compliant**
Animal-free production

Anti-Visfatin antibody [EPR21980] (ab236874)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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