

Anti-Visfatin Picoband Antibody
Catalog # ABO11627**Specification****Anti-Visfatin Picoband Antibody - Product Information**

Application	WB, IHC
Primary Accession	P43490
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Nicotinamide phosphoribosyltransferase(NAMPT) detection. Tested with WB, IHC-P, ELISA in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Visfatin Picoband Antibody - Additional Information

Gene ID 10135

Other Names

Nicotinamide phosphoribosyltransferase, NAMPTase, Nampt, 2.4.2.12, Pre-B-cell colony-enhancing factor 1, Pre-B cell-enhancing factor, Visfatin, NAMPT, PBEF, PBEF1

Calculated MW

55521 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat
ELISA , 0.1-0.5 µg/ml, Human, Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization

Nucleus . Cytoplasm . Secreted . Under non-inflammatory conditions, visfatin predominantly exhibits a granular pattern within the nucleus. Secreted by endothelial cells upon IL-1beta stimulation. Abundantly secreted in milk, reaching 100-fold higher concentrations compared to maternal serum. .

Tissue Specificity

Expressed in large amounts in bone marrow, liver tissue, and muscle. Also present in heart, placenta, lung, and kidney tissues.

Protein Name

Nicotinamide phosphoribosyltransferase

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Na₃.

Immunogen

E. coli-derived human Visfatin recombinant protein (Position: L62-N337). Human Visfatin shares 97.1% and 96.7% amino acid (aa) sequence identity with mouse and rat Visfatin, respectively.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-Visfatin Picoband Antibody - Protein Information

Name NAMPT

Synonyms PBEF, PBEF1

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).

Cellular Location

Nucleus. Cytoplasm {ECO:0000250|UniProtKB:Q99KQ4}. Secreted Note=Under non-inflammatory conditions, visfatin predominantly exhibits a granular pattern within the nucleus. Secreted by endothelial cells upon IL-1beta stimulation. Abundantly secreted in milk, reaching 100-fold higher concentrations compared to maternal serum

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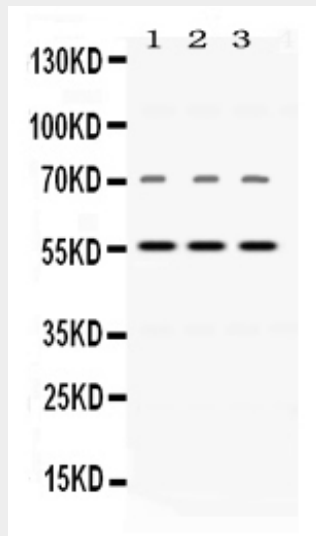
Anti-Visfatin Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

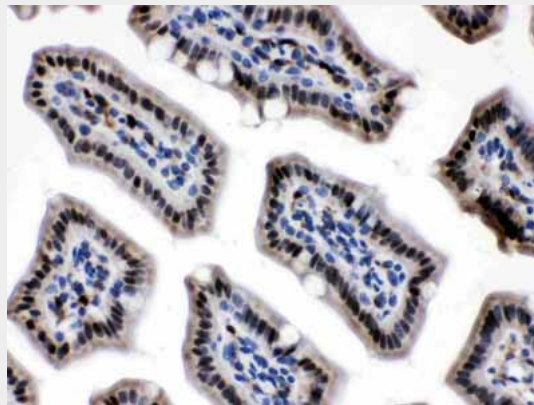
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)

- [Cell Culture](#)

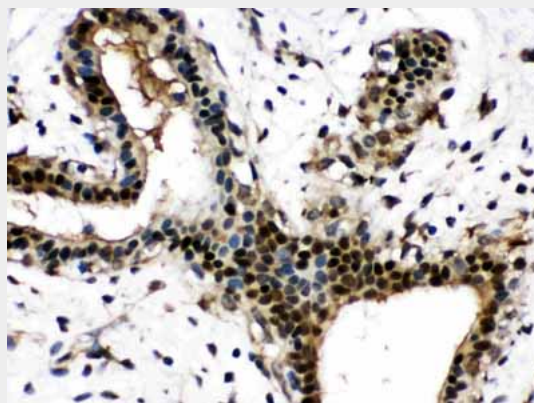
Anti-Visfatin Picoband Antibody - Images



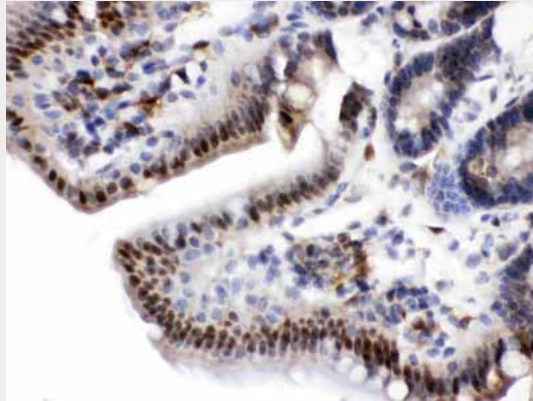
Western blot analysis of Visfatin expression in rat brain extract (lane 1), mouse cardiac muscle extract (lane 2), and human placenta extract (lane 3). Visfatin at 56KD was detected using rabbit anti-Visfatin Antigen Affinity purified polyclonal antibody (Catalog # ABO11627) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .



Visfatin was detected in paraffin-embedded sections of mouse intestine tissues using rabbit anti-Visfatin Antigen Affinity purified polyclonal antibody (Catalog # ABO11627) at 1 µg/mL. The immunohistochemical section was developed using SABC method .



Visfatin was detected in paraffin-embedded sections of human mammary cancer tissues using rabbit anti- Visfatin Antigen Affinity purified polyclonal antibody (Catalog # ABO11627) at 1 μ g/mL. The immunohistochemical section was developed using SABC method .



Visfatin was detected in paraffin-embedded sections of rat intestine tissues using rabbit anti-Visfatin Antigen Affinity purified polyclonal antibody (Catalog # ABO11627) at 1 μ g/mL. The immunohistochemical section was developed using SABC method .

Anti-Visfatin Picoband Antibody - Background

Nicotinamide phosphoribosyltransferase (NAMPRTase or Nampt), also known as pre-B-cell colony-enhancing factor 1 (PBEF1) or visfatin, is an enzyme that in humans is encoded by the PBEF1 gene. This gene encodes a protein that catalyzes the condensation of nicotinamide with 5-phosphoribosyl-1-pyrophosphate to yield nicotinamide mononucleotide, one step in the biosynthesis of nicotinamide adenine dinucleotide. The protein belongs to the nicotinic acid phosphoribosyltransferase (NAPRTase) family and is thought to be involved in many important biological processes, including metabolism, stress response and aging. This gene has a pseudogene on chromosome 10.