

## Rabbit Anti-Visfatin antibody

SL0272R

**Product Name** Visfatin

**Chinese Name** 内脂素/内脏脂肪素/前 B 细胞克隆增强因子 1 抗体

**Alias** pre-B-cell colony-enhancing factor 1; PBEF1 protein; AI480535; 1110035O14Rik; AI314458; DKFZP666B131; EC 2.4.2.12; MGC117256; NAmPRTase; NAMPT; Nicotinamide phosphoribosyltransferase; PBEF; PBEF1; Pre B cell colony enhancing factor 1; Pre B cell colony enhancing factor; Pre B cell enhancing factor; Visfatin; NAMPT\_HUMAN.

**Research Area** Cardiovascular Neurobiology Diabetes Endocrinopathy

**Immunogen Species** Rabbit

**Clonality** Polyclonal

**React Species** Human,Rat (predicted:Mouse,Chicken,Pig,Cow,Horse,Monkey)

**Applications** IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1ug/Test (Paraffin sections need antigen repair)  
not yet tested in other applications.  
optimal dilutions/concentrations should be determined by the end user.

**Theoretical molecular weight** 55kDa

**Cellular localization** cytoplasmic

**Form** Liquid

**Concentration** 1mg/ml

**immunogen** KLH conjugated synthetic peptide derived from human PBEF: 301-400/491

**Lsotype** IgG

**Purification** affinity purified by Protein A

**Buffer Solution** 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

**Storage** Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

**Attention** This product as supplied is intended for research use only, not for use in human, therapeutic

or diagnostic applications.

**PubMed**

[PubMed](#)

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. [provided by RefSeq, Feb 2011].

**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.

**Subunit:**

Homodimer.

**Subcellular Location:**

Cytoplasm.

**Tissue Specificity:**

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

**Product  
Detail**

**Similarity:**

Belongs to the NAPRTase family.

**SWISS:**

P43490

**Gene ID:**

10135

**Database links:**

[Entrez Gene: 10135](#) Human

[Entrez Gene: 59027](#) Mouse

[Entrez Gene: 297508](#) Rat

[Omim: 608764](#) Human

[SwissProt: P43490](#) Human

[SwissProt: Q99KQ4](#) Mouse

[SwissProt: Q80Z29](#) Rat

[Unigene: 489615](#) Human

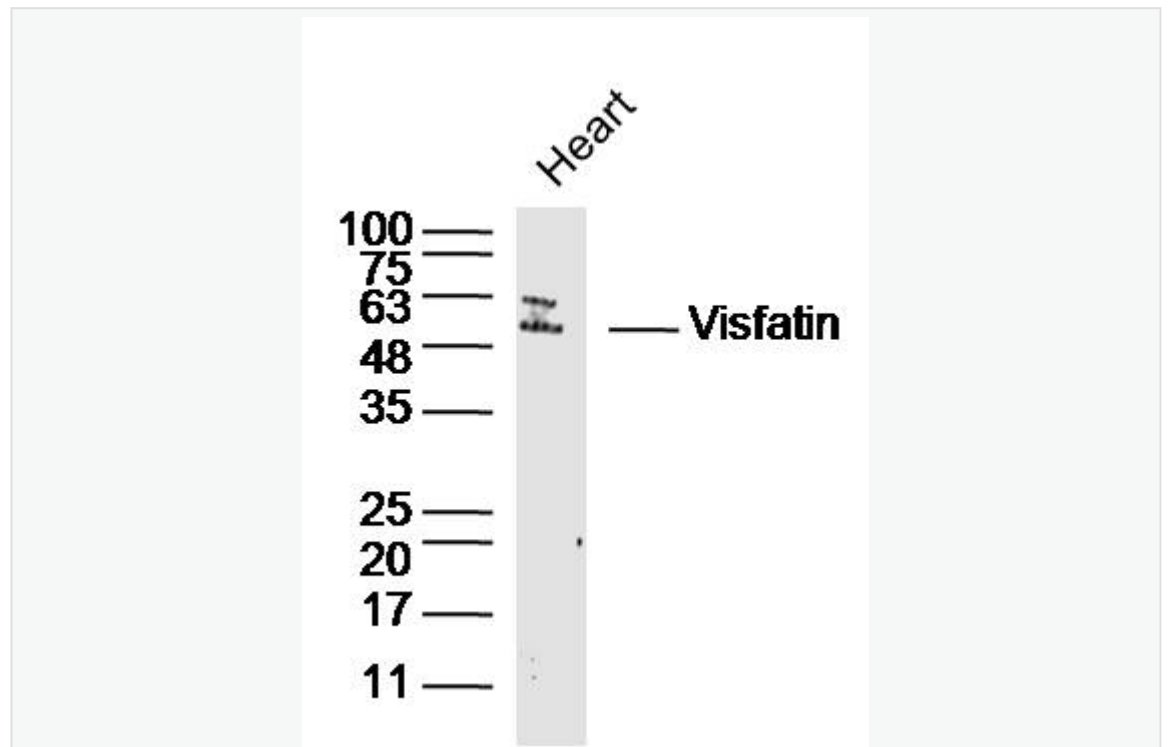
[Unigene: 202727](#) Mouse

[Unigene: 203508](#) Rat

一种新的脂肪因子-visfatin 是新近发现的主要由人和小鼠内脏脂肪组织分泌的一种脂肪 cell factor,其结构与 pre-B 细胞集落增强因子相似.它能够发挥类似胰岛素的作用,与II型 Diabetes 相关联,降低血糖,促进糖摄取,可结合并活化胰岛素受体,激活胰岛素信号通路.内脏脂肪因子-Visfatin 与肥胖密切相关并能够促进脂肪细胞的分化,还能促进血管平滑肌细胞成熟.

Visfatin 的表达受炎症反应因子和多种激素的调节.PBEF-1 可能是联系机体糖脂代谢的重要分子,它的发现可为揭示 Diabetes 与肥胖的发生发展机制提供新的研究思路,为代谢综合征的治疗提供新方案.

Product  
Picture



Sample:

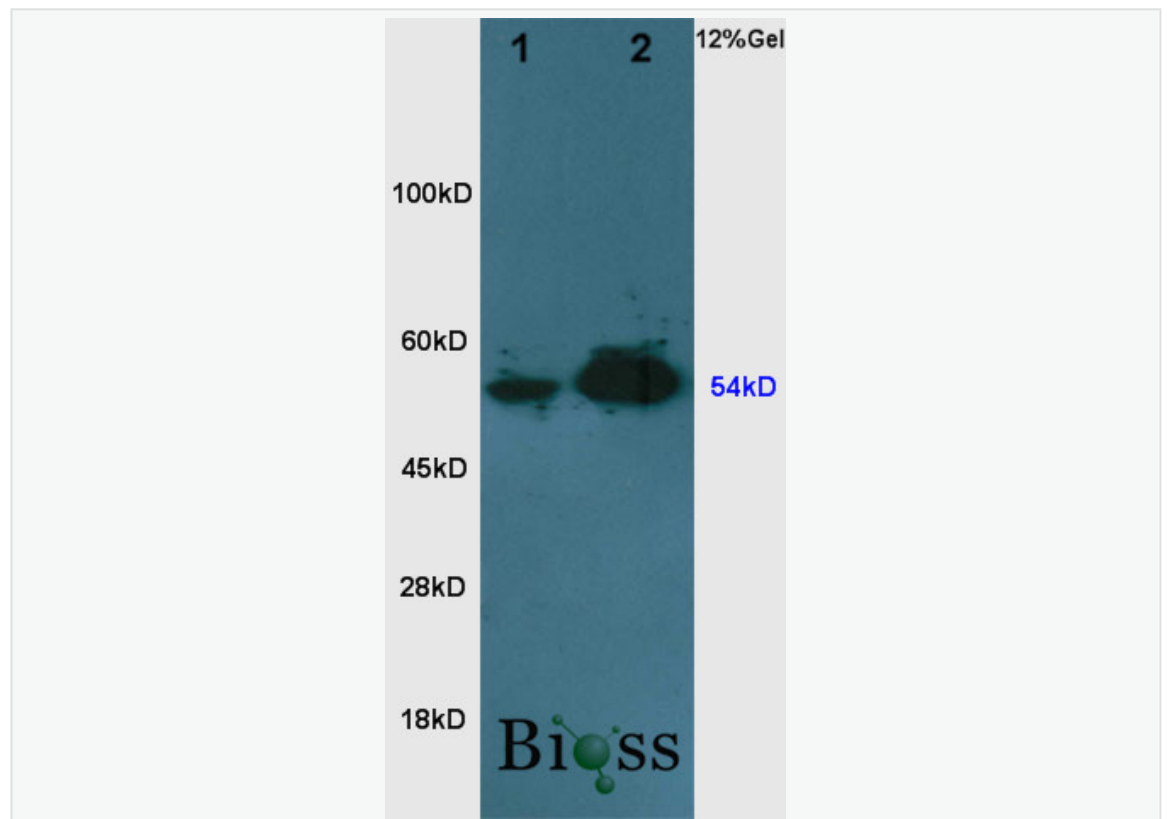
Heart (Mouse) Lysate at 40 ug

Primary: Anti-Visfatin (SL0272R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 55 kD

Observed band size: 55 kD



Sample:

Lane1:Brain(Rat) Lysate at 30 ug

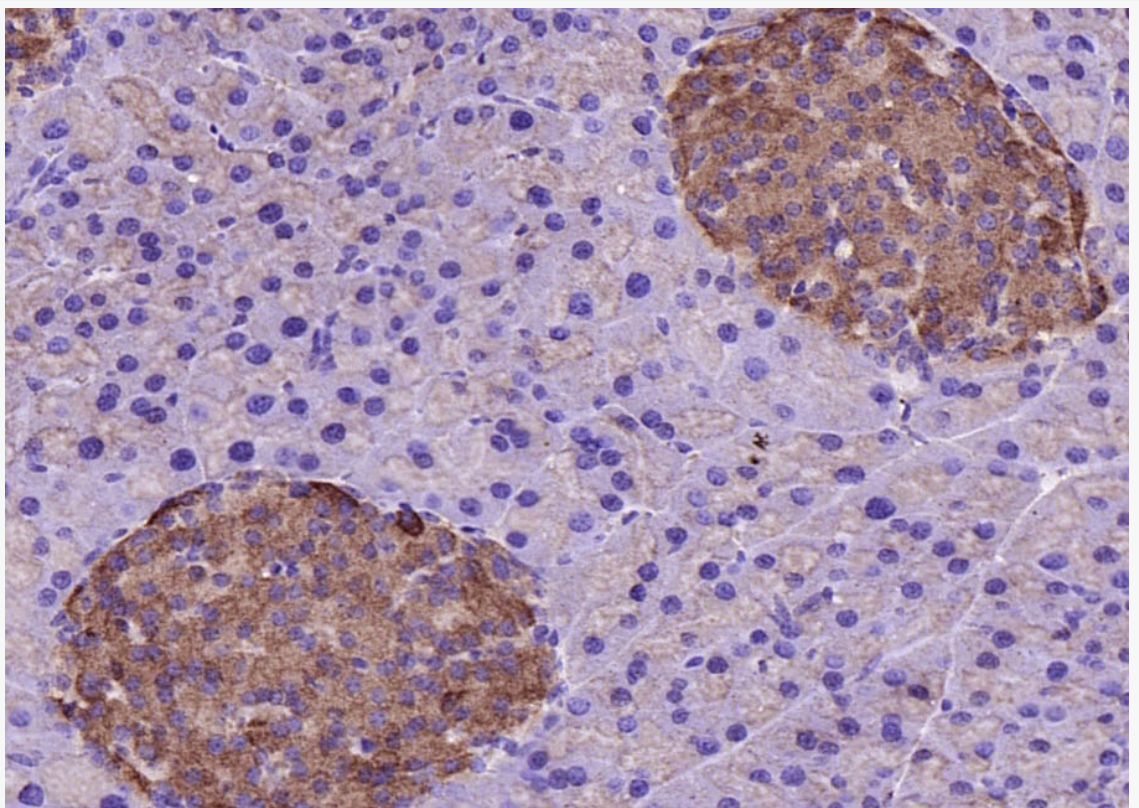
Lane2:Liver (Rat) Lysate at 30 ug

Primary: Anti-VISFATIN-1 (SL0272R) at 1:200 dilution

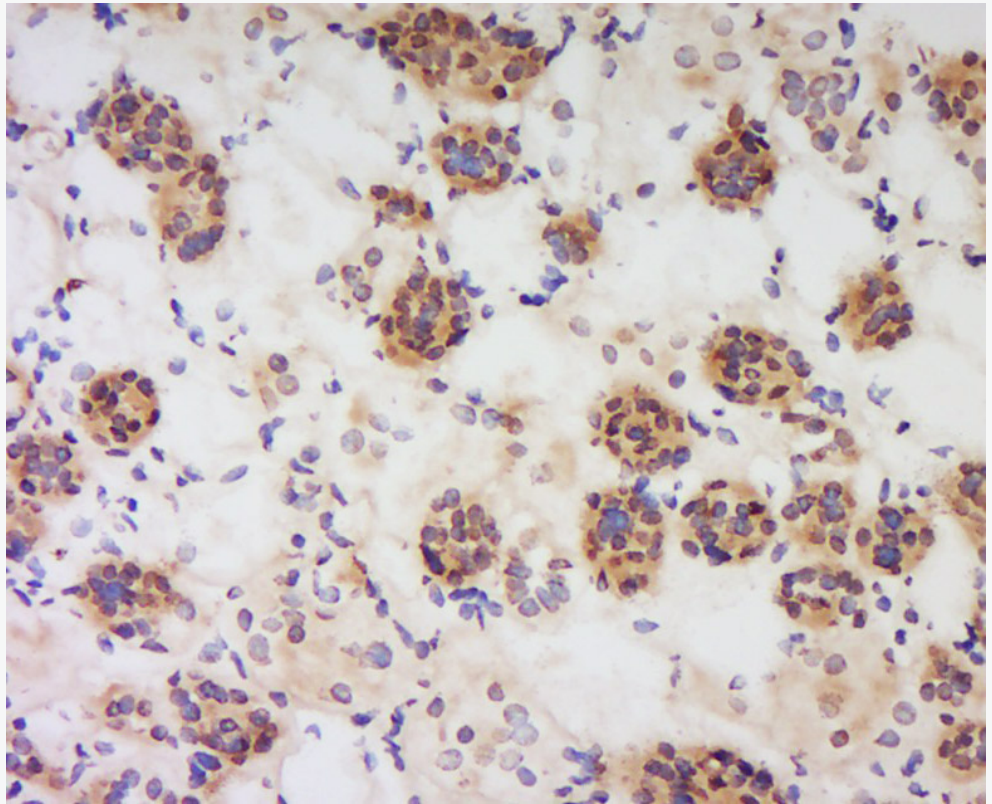
Secondary: HRP conjugated Goat-Anti-Rabbit IgG(bse-0295G) at 1: 3000 dilution

Predicted band size : 55kD

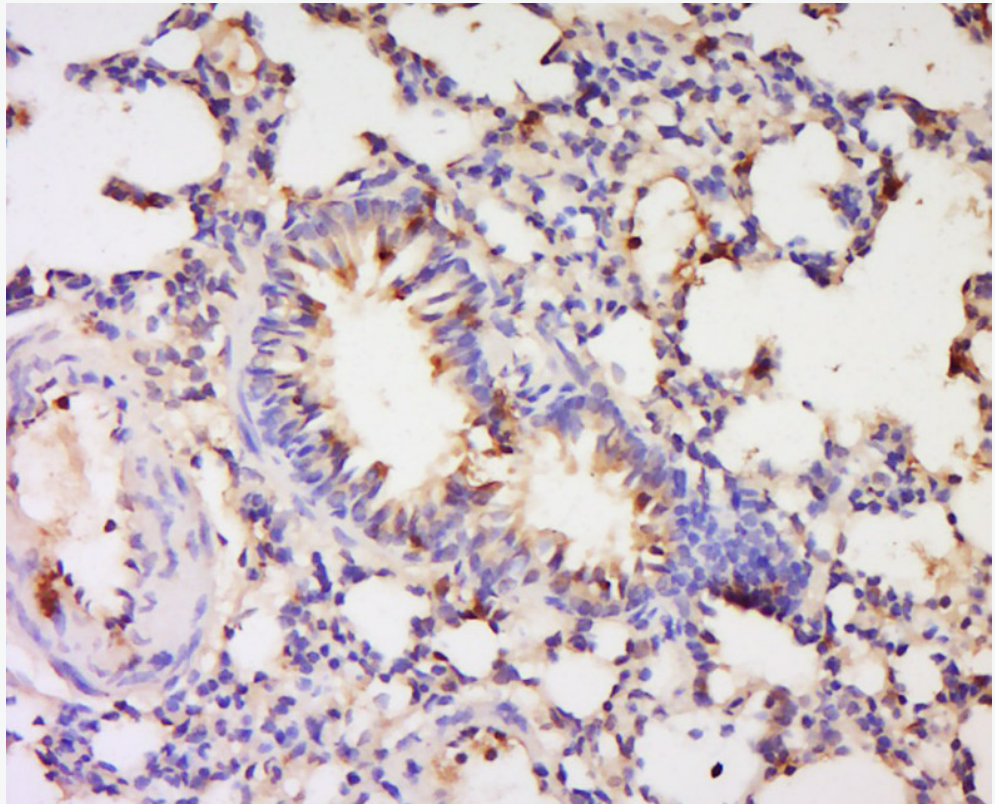
Observed band size : 54kD



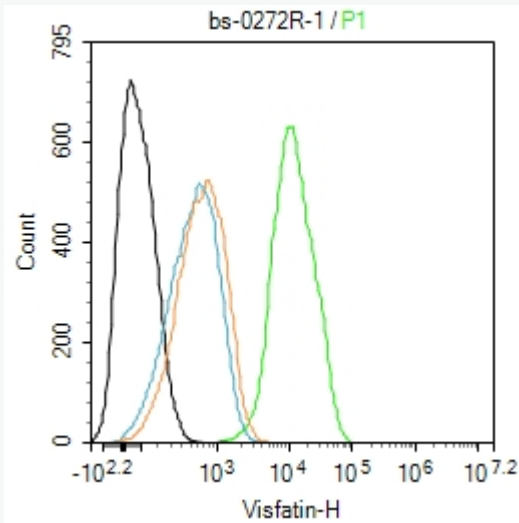
Paraformaldehyde-fixed, paraffin embedded (rat pancreas); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Visfatin) Polyclonal Antibody, Unconjugated (SL0272R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Tissue/cell: human kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;  
Antigen retrieval: citrate buffer ( 1M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;  
Incubation: Anti- Visfatin Polyclonal Antibody, Unconjugated(SL0272R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: Rat lung tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;  
Antigen retrieval: citrate buffer ( 1M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;  
Incubation: Anti- Visfatin Polyclonal Antibody, Unconjugated(SL0272R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control: HepG2.

Primary Antibody (green line): Rabbit Anti-Visfatin antibody (SL0272R)

Dilution: 1ug/Test;

Secondary Antibody : Goat anti-rabbit IgG-FITC

Dilution: 0.5ug/Test.

#### Protocol

The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at  $-20^{\circ}\text{C}$ .The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.