

For Research Use Only

# NAMPT/PBEF Monoclonal antibody

Catalog Number: 66385-1-Ig

Featured Product

10 Publications



## Basic Information

Catalog Number:

66385-1-Ig

Size:

150ul, Concentration: 2000 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

AG2434

GenBank Accession Number:

BC020691

GeneID (NCBI):

10135

UNIPROT ID:

P43490

Full Name:

nicotinamide phosphoribosyltransferase

Calculated MW:

52 kDa

Observed MW:

52 kDa

Purification Method:

Protein A purification

CloneNo.:

3D4D8

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:50-1:500

IF/ICC 1:200-1:800

## Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

Positive Controls:

**WB**: LNCaP cells, MCF-7 cells, human heart tissue, human skeletal muscle tissue, rat heart tissue, mouse skeletal muscle tissue, Neuro-2a cells, HeLa cells, HepG2 cells, K-562 cells, HSC-T6 cells, PC-12 cells, NIH/3T3 cells, Jurkat cells, PC-3 cells, HT-29 cells, HCT 116 cells, MOLT-4 cells

**IHC**: human breast cancer tissue,

**IF/ICC**: HeLa cells, HepG2 cells

## Background Information

Nicotinamide phosphoribosyltransferase (NAMPT) has two usual synonyms termed Visfatin and PBEF. Its primary role is to catalyze the condensation of nicotinamide with 5-phosphoribosyl-1-pyrophosphate to yield nicotinamide mononucleotide, an intermediate in the biosynthesis of NAD, which is the rate limiting component in the mammalian NAD biosynthesis pathway. NAMPT is localized in cytoplasm and expressed in large amounts in bone marrow, liver tissue, and muscle tissues. NAMPT inhibits neutrophil apoptosis in experimental inflammation and clinical sepsis. NAMPT levels are altered in plasma of patients with type 2 diabetes mellitus (T2DM), and it is now evidenced that NAMPT may play a role in lipid metabolism.

## Notable Publications

Author	Pubmed ID	Journal	Application
Jing-Hua Pan	30191976	J Cell Physiol	WB, IHC
Xiaotong Zhu	36323324	Cell Chem Biol	WB
Yuetong Wang	34380043	Cell Rep	WB

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

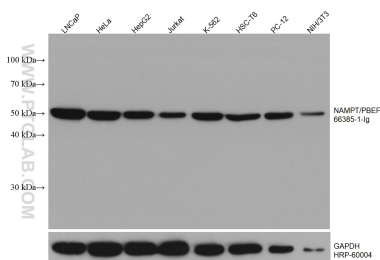
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

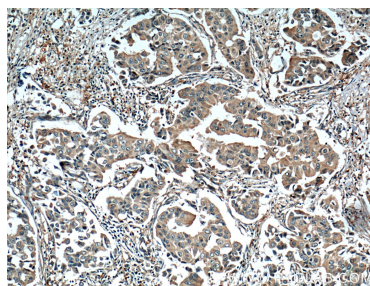
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

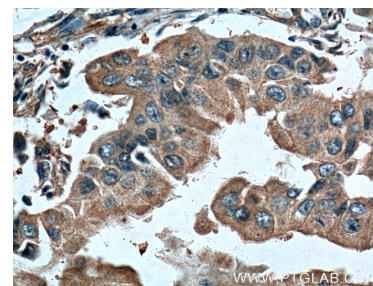
## Selected Validation Data



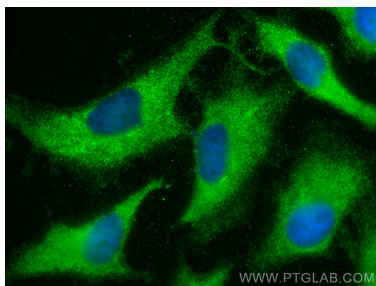
Various lysates were subjected to SDS PAGE followed by western blot with 66385-1-Ig (NAMPT/PBEF antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66385-1-Ig (NAMPT/PBEF antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66385-1-Ig (NAMPT/PBEF antibody) at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using NAMPT/PBEF antibody (66385-1-Ig, Clone: 3D4D8) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).