

KD-Validated Anti-NAMPT Rabbit Monoclonal Antibody
Rabbit monoclonal Antibody
Catalog # AGI2214**Specification****KD-Validated Anti-NAMPT Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC
Primary Accession	P43490
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 56 kDa, observed, 50 kDa kDa
Gene Name	NAMPT
Aliases	NAMPT; Nicotinamide Phosphoribosyltransferase; PBEF; Visfatin; PBEF1; Pre-B-Cell Colony-Enhancing Factor 1; Pre-B Cell-Enhancing Factor; EC 2.4.2.12; NAMPTase; Pre-B-Cell Colony Enhancing Factor 1; 1110035014Rik; Nampt; VF
Immunogen	A synthesized peptide derived from human Visfatin

KD-Validated Anti-NAMPT Rabbit Monoclonal 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	

KD-Validated Anti-NAMPT Rabbit Monoclonal 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

Tissue Location

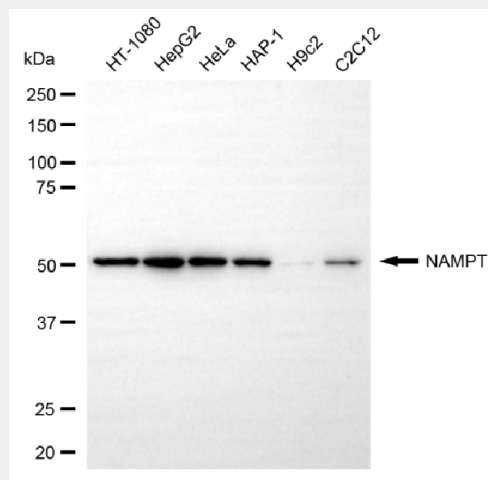
Expressed in large amounts in bone marrow, liver tissue, and muscle. Also present in heart, placenta, lung, and kidney tissues

KD-Validated Anti-NAMPT Rabbit Monoclonal Antibody - Protocols

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

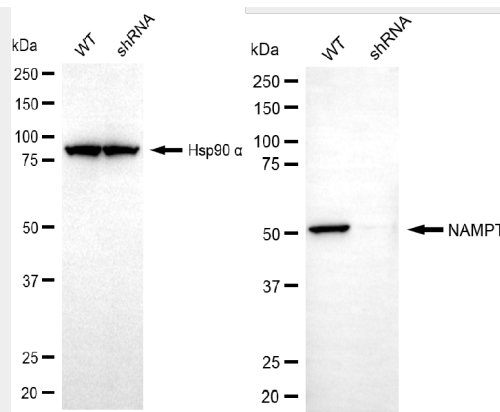
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KD-Validated Anti-NAMPT Rabbit Monoclonal Antibody - Images



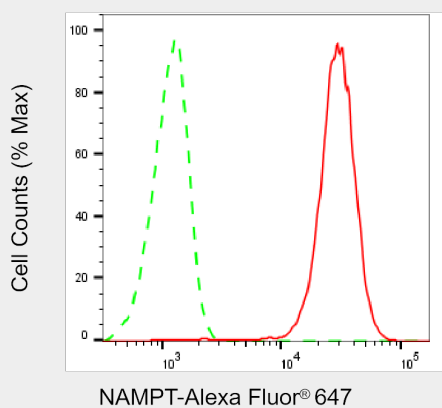
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Western blotting analysis using anti-NAMPT antibody (Cat#AGI2214). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-NAMPT antibody (Cat#AGI2214, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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Western blotting analysis using anti-NAMPT antibody (Cat#AGI2214). NAMPT expression in wild-type (WT) and NAMPT shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-NAMPT antibody (Cat#AGI2214, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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Flow cytometric analysis of NAMPT expression in HepG2 cells using anti-NAMPT antibody (Cat#AGI2214, 1:2,000). Green, isotype control; red, NAMPT.