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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; NAmPRTase; Pre-B-Cell Colony Enhancing Factor 1; 1110035O14Rik; 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, NAmPRTase, 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

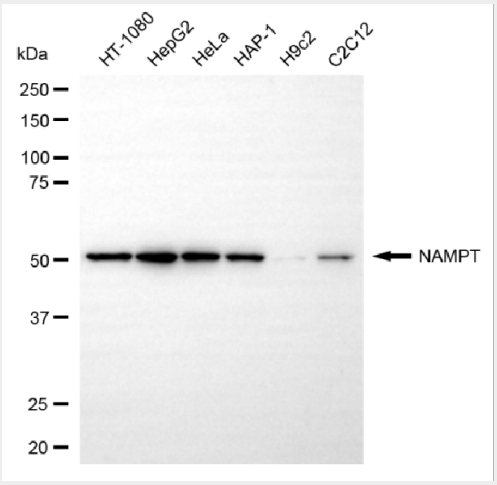
Tissue Location
Expressed in large amounts in bone marrow, liver tissue, and muscle. Also present in heart, placenta, lung, and kidney tissues

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 Cytomety
- Cell Culture

KD-Validated Anti-NAMPT Rabbit Monoclonal Antibody - Images



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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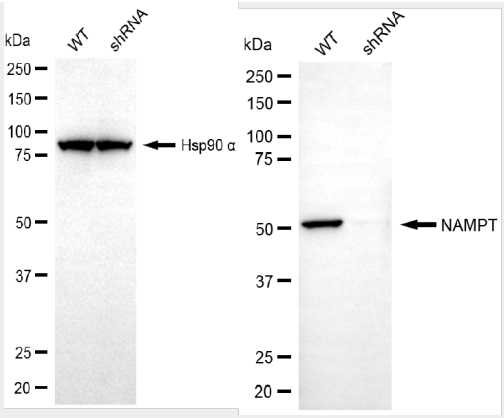
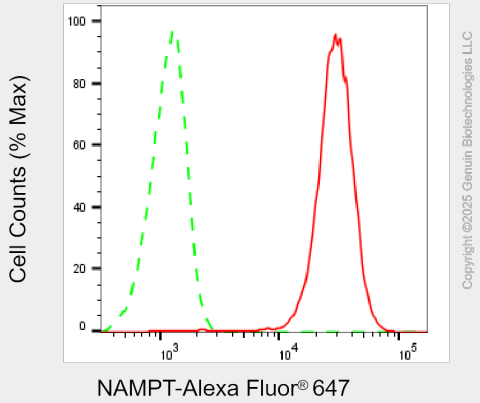


Western blotting analysis using anti-NAMPT antibody (Cat#AGI2214). NAMPT expression in wild-type (WT) and NAMPT shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-NAMPT antibody (Cat#AGI2214, 1:5,000) and HRP-conjugated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



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