

KD-Validated Anti-NAMPT Rabbit Monoclonal Antibody

Rabbit monoclonal Antibody

Catalog # AGI2214

Product Information

Application	WB, FC
Primary Accession	P43490
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	25GB255
Calculated MW	55521
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; 1110035O14Rik; Nampt; VF
Immunogen	A synthesized peptide derived from human Visfatin

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

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.