NAMPT Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NAMPT, Polyclonal Antibody
Full Product Name	NAMPT Antibody, FITC conjugated
Product Gene Name	anti-NAMPT antibody
Product Synonym Names	Nicotinamide phosphoribosyltransferase; NAmPRTase; Nampt; Pre-B-cell colony-enhancing factor 1; Pre-B cell-enhancing factor; Visfatin; NAMPT; PBEF; PBEF1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: NAMPT (MBS7052173) FITC Conjugated Antibody: NAMPT (MBS7052175)
Molecular Weight	55,521 Da
OMIM	U02020 mRNA
3D Structure	ModBase 3D Structure for P43490
Immunogen	Recombinant Human Nicotinamide phosphoribosyltransferase protein (1-280AA)
Conjugation	FITC
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, pH 7.4
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-NAMPT antibody	ELISA (EIA)
Related Product Information for anti-NAMPT antibody	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-ARNTL/BMAL1 heterodimer from NAD-dependent SIRT1-mediated suppression (By similarity).
Other Notes	Small volumes of anti-NAMPT antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NAMPT purchase	MBS7052175 is an antibody targeting NAMPT. Also known as NAMPT Antibody, FITC conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NAMPT. It may not necessarily be applicable to this product.

NCBI GI #	5031977
NCBI GeneID	10135
NCBI Accession #	NP_005737.1
UniProt Primary Accession #	P43490
UniProt Secondary Accession #	Q3KQV0; Q8WW95; A4D0Q9; A4D0R0
UniProt Related Accession #	P43490
GenBank Nucleotide #	NM_005746.2
NCBI Official Full Name	nicotinamide phosphoribosyltransferase
NCBI Official Synonym Full Names	nicotinamide phosphoribosyltransferase
NCBI Official Symbol	NAMPT
NCBI Official Synonym Symbols	VF; PBEF; PBEF1; VISFATIN; 1110035O14Rik
UniProt Protein Name	Nicotinamide phosphoribosyltransferase
UniProt Synonym Protein Names	Pre-B-cell colony-enhancing factor 1; Pre-B cell-enhancing factor; Visfatin
Protein Family	Nicotinamide phosphoribosyltransferase
UniProt Gene Name	NAMPT
UniProt Synonym Gene Names	PBEF; PBEF1; NAmPRTase; Nampt; Pre-B cell-enhancing factor
NCBI Protein Information	nicotinamide phosphoribosyltransferase
NCBI Summary for NAMPT	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]
UniProt Comments for NAMPT	PBEF: an ubiquitous protein originally described as a cytokine which acts on early B-lineage precursor cells. Other reports indicate that PBEF is not a cytokine-like secreted protein but an intracellular protein associated with the cell cycle. Contains a catalytically active nicotinate phosphoribosyltransferase domain, an enzyme involved in nicotinamide adenine dinucleotide (NAD) biosynthesis. Protein type: Cell cycle regulation; Cofactor and Vitamin Metabolism - nicotinate and nicotinamide; Cytokine; EC 2.4.2.12; Transferase Chromosomal Location of Human Ortholog: 7q22.3 Cellular Component: cell junction; cytosol; nucleoplasm Molecular Function: nicotinamide phosphoribosyltransferase activity; protein binding Biological Process: cell-cell signaling; circadian regulation of gene expression; circadian rhythm; insulin receptor signaling pathway; nicotinamide metabolic process; positive regulation of cell proliferation; positive regulation of nitric-oxide synthase biosynthetic process; positive regulation of transcription from RNA polymerase II promoter; signal transduction
Research Articles on NAMPT	**1.** Lower apelin and higher visfatin plasma levels in high normal blood pressure subjects compared to normal or optimal BP individuals could partially explain the higher cardiovascular risk of the high normal BP group.

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