

Product Name: KD-Validated NAMPT Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00384**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 55.5kDa

Antigen Information

Gene Name	NAMPT NAMPT; Nicotinamide Phosphoribosyltransferase; PBEF; Visfatin; PBEF1; Pre-B-Cell Colony-
Alternative Names	Enhancing Factor 1; Pre-B Cell-Enhancing Factor; EC 2.4.2.12; NAmPRTase; Pre-B-Cell Colony Enhancing Factor 1; 1110035O14Rik; Nampt; VF
Gene ID	10135.0
SwissProt ID	P43490
Immunogen	A synthesized peptide derived from human Visfatin

Background

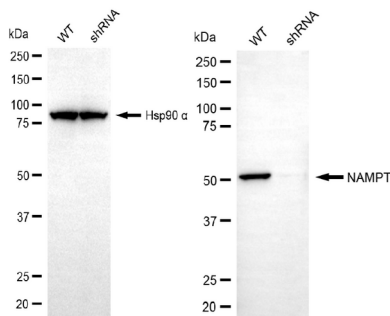
This gene encodes a protein that catalyzes the condensation of nicotinamide with 5-phosphoribosyl-1-pyrophosphate to yield nicotinamide mononucleotide, one step in the biosynthesis of nicotinamide adenine dinucleotide. The protein belongs to the

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]

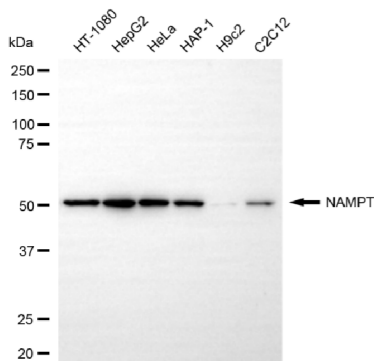
Research Area

Cardiovascular, Immunology, Signal Transduction, Neuroscience, Metabolism

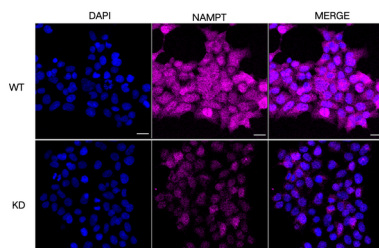
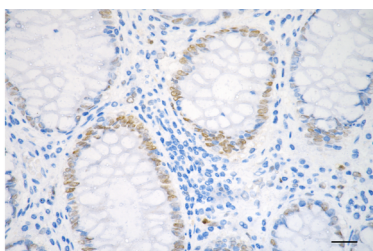
Image Data



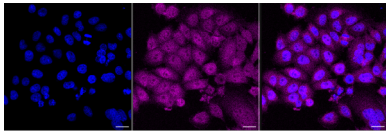
Western blotting analysis using NAMPT antibody (KVA00384). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with NAMPT antibody (KVA00384, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



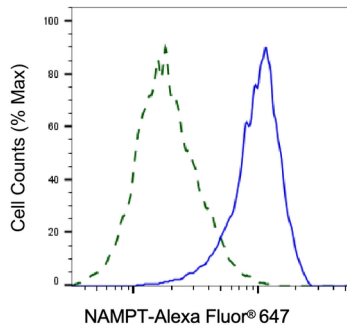
Immunohistochemistry was performed on paraffin-embedded human sigmoid colon carcinoma using NAMPT antibody (KVA00384, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



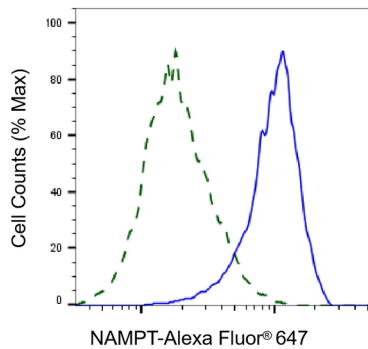
Immunocytochemical staining of HeLa cells using NAMPT antibody (KVA00384, 1:1,000). Top panel: wild-type (WT); Bottom panel: NAMPT shRNA knockdown (KD). Nuclei were stained blue with DAPI; NAMPT was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Immunocytochemical staining of HepG2 cells with NAMPT antibody (KVA00384, 1:1,000). Nuclei were stained blue with DAPI; NAMPT was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Validation of NAMPT knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with NAMPT antibody (KVA00384, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of NAMPT expression in HepG2 cells using NAMPT antibody (KVA00384, 1:2,000). Green, isotype control; red, NAMPT.