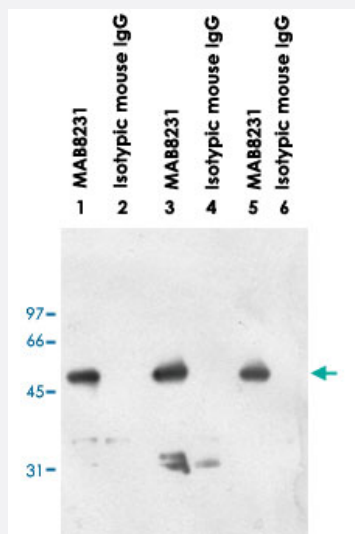


NAMPT monoclonal antibody, clone AF-1E12

Catalog # MAB8231 Size 100 ug

Applications



Immunoprecipitation

IP-WB analysis of human NAMPT in cell lysates of three cell lines using this NAMPT monoclonal antibody, clone AF-1E12 (Cat # MAB8231) for IP and NAMPT polyclonal antibody (Cat # PAB17046) for WB.

Lane 1, 2 : Raji

Lane 3, 4 : HL-60

Lane 5, 6 : K-562

Specification

Product Description Mouse monoclonal antibody raised against full length recombinant NAMPT.

Immunogen Recombinant His fusion protein corresponding to full length human NAMPT.

Host Mouse

Reactivity Human

Specificity This antibody detects endogenous NAMPT.

Form Liquid

Isotype IgG2a

Recommend Usage Immunoprecipitation (1-2 ug/sample)
The optimal working dilution should be determined by the end user.

Storage Buffer In 10 mM phosphate buffer, 150 mM NaCl, pH 7.5 (50% glycerol)

Storage Instruction

Store at -20°C.
Aliquot to avoid repeated freezing and thawing.

Applications

- Immunoprecipitation

IP-WB analysis of human NAMPT in cell lysates of three cell lines using this NAMPT monoclonal antibody, clone AF-1E12 (Cat # MAB8231) for IP and NAMPT polyclonal antibody (Cat # PAB17046) for WB.

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — NAMPT

Entrez GeneID [10135](#)

Gene Name NAMPT

Gene Alias 1110035O14Rik, DKFZp666B131, MGC117256, PBEF, PBEF1, VF, VISFATIN

Gene Description nicotinamide phosphoribosyltransferase

Omim ID [608764](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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 is an adipokine that is localized to the bloodstream and has various functions, including the promotion of vascular smooth muscle cell maturation and inhibition of neutrophil apoptosis. It also activates insulin receptor and has insulin-mimetic effects, lowering blood glucose and improving insulin sensitivity. The protein is highly expressed in visceral fat and serum levels of the protein correlate with obesity. This gene has a pseudogene on chromosome 10. [provided by RefSeq]

Other Designations NAMPTase|pre-B cell-enhancing factor|pre-B-cell colony enhancing factor 1

Publication Reference

- [Circadian clock feedback cycle through NAMPT-mediated NAD⁺ biosynthesis.](#)

Ramsey KM, Yoshino J, Brace CS, Abrassart D, Kobayashi Y, Marcheva B, Hong HK, Chong JL, Buhr ED, Lee C, Takahashi JS, Imai S, Bass J.

Science 2009 Mar; 324(5927):651.

- [Circadian control of the NAD⁺ salvage pathway by CLOCK-SIRT1.](#)

Nakahata Y, Sahar S, Astarita G, Kaluzova M, Sassone-Corsi P.

Science 2009 Mar; 324(5927):654.

- [TNF regulates cellular NAD⁺ metabolism in primary macrophages.](#)

Iqbal J, Zaidi M.

Biochemical and Biophysical Research Communications 2006 Apr; 342(4):1312.

Pathway

- [Nicotinate and nicotinamide metabolism](#)

Disease

- [Birth Weight](#)
- [Cardiovascular Diseases](#)
- [Coronary Artery Disease](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Inflammation](#)
- [Insulin Resistance](#)
- [Kidney Failure](#)
- [Obesity](#)