

## Polyclonal Antibody to NAMPT/Visfatin



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## Polyclonal Antibody to NAMPT/Visfatin

**Catalog No :** IMX-6096  
**Formulation :** 100 ul of crude rabbit sera with 50% glycerol and 0.025% sodium azide. Sodium azide is highly toxic.  
**Isotype :** Rabbit Ig  
**Species React :** Chimpanzee, Cow, Human, Monkey, Mouse, Rat  
**Predicted React :** Zebrafish  
**Host :** Rabbit

**Application**  
Peptide ELISA: 1:100-1:1000  
Western blot analysis: 1:1000-1:2000  
**Storage**  
Store at -20°C.

### Background

Imgenex's IMX line of antibodies are ELISA positive samples that are still undergoing R&D testing. Available testing data will be listed under the Applications section.

NAMPT is a 491 amino acid adipokine belonging to the NAPRTase family. It promotes angiogenesis via activation of the mitogen-activated protein kinase ERK-dependent pathway and is upregulated in neutrophils by IL-1beta and functions as a novel inhibitor of apoptosis in response to a variety of inflammatory stimuli. It acts as a regulator of NAD<sup>+</sup>-dependent reactions in smooth muscle cells (SMCs) and in the pathogenesis of type 2 diabetes mellitus. NAMPT plays a role in insulin resistance and markers of hyperandrogenism in lean PCOS patients. It is a longevity protein that can add stress-resistant life to human smooth muscle cells by optimizing SIRT1-mediated p53 degradation. The expression level of NAMPT is high in visceral fat and serum levels in overweight and obese subjects with metabolic syndrome. It is expressed in large amounts in bone marrow, liver tissue, muscle, heart, placenta, lung and kidney tissues.

### Antigen

Amino acid 395-412 (FKDPVADPNKRSKKGRLS) of human NAMPT protein were used as the immunogen.

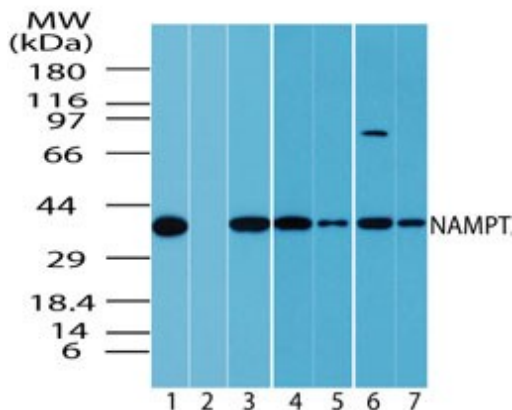
### Application Notes

The amino acid sequence used as immunogen is 100% homologous in human, monkey, chimpanzee, cow, mouse and rat, and 83% homologous in zebrafish.

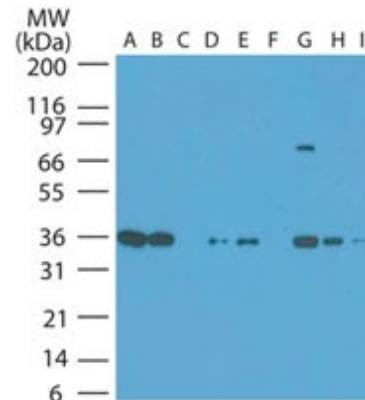
The expected molecular weight of NAMPT is approximately 55 kD. IMX-6096 detects an approximately 38 kD band in western blot. The reason for the size difference is not known.

### Genebank Info (Protein)

NP\_005737



Western blot analysis of NAMPT in multiple samples using IMX-6096 at 1:1000. Lanes: 1. human spleen, 2. human spleen in the presence of immunizing/blocking peptide, 3. HeLa, 4. Jurkat, 5. Rh30, 6. T98G, 7. HCT-116.



Western blot analysis of NAMPT in IMGENEX's human tumor cell line INSTA-Blot (Cat. No. IMB-105) at 1:1000. Lanes: A. HeLa, B. Jurkat, C. Daudi, D. HEK 293, E. Rh30, F. A375, G. T98G, H. HCT-116, I. Hep-2.

### Reference

- van, E. et al. *J. Biol. Chem.* 282:10841-10845 (2007).
- Jia, SH. et al. *J. Clin. Invest.* 113:1318-1327 (2004).

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