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Nampt Antibody

CATALOG NUMBER: 36-226

Specifications

SPECIES REACTIVITY:	Human
TESTED APPLICATIONS:	ELISA, IHC, WB
APPLICATIONS:	ELISA: (direct and indirect: 1:2,000-1:5,000). Immunohistochemistry: (paraffin sections, 10ug/ml). Western Blot: (1:2,000-1:5,000 using ECL; suggested blocking and dilution buffer is PBST containing 0.05% Tween 20 and 5% skim milk; suggested incubation time is 1 hour at room temperature). Optimal conditions must be determined individually for each application.
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
SPECIFICITY:	Recognizes human Nampt. Weakly cross-reacts with mouse Nampt. Detects a band of ~54kDa by Western blot.
IMMUNOGEN:	Synthetic peptide corresponding to aa 413-431 (V413FKDPVADPNKRSKKGRLS431) of human Nampt (Visfatin/PBEF).
HOST SPECIES:	Rabbit

Properties

PHYSICAL STATE:	Liquid
BUFFER:	Liquid. 0.2um-filtered solution in PBS, pH 7.4. Contains no preservatives.
CONCENTRATION:	1 mg/ml
STORAGE CONDITIONS:	Stable for at least 6 months after receipt when stored at -20˚C.
CLONALITY:	Polyclonal
CONJUGATE:	Unconjugated

Additional Info

ALTERNATE NAMES:	Pre-B Cell Colony Enhancing Factor 1; PBEF1; Nicotinamide Phosphoribosyltransferase
ACCESSION NO.:	NP_005737
PROTEIN GI NO.:	5031977
OFFICIAL SYMBOL:	NAMPT
GENE ID:	10135

Background

BACKGROUND:	Nicotinamide phosphoribosyltransferase (Nampt; pre-B cell colony-enhancing factor; PBEF; Visfatin) is an 52kDa adipokine secreted by adipose tissue and involved in the biosynthesis of nicotinamide adenine dinucleotide (NAD+). Two forms of Nampt exist, an intracellular form (iNampt) and an extracellular form (eNampt). While the function of iNampt as an essential and rate-limiting NAD+ biosynthetic enzyme is well established, the physiological role of eNampt is still a matter of debate. Nampt has various functions, including the promotion of vascular smooth muscle cell maturation and inhibition of neutrophil apoptosis. It 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.

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