

Product datasheet for AP23431BT-N

Visfatin (NAMPT) Rabbit Polyclonal Antibody

Product data:

OriGene Technologies, Inc.

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Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	 Direct ELISA: To detect Human Visfatin by direct ELISA (using 100 µl/well antibody solution) a concentration of 0.25–1.0 µg/ml of this antibody is required. This biotinylated polyclonal antibody, in conjunction with compatible secondary reagents, allows the detection of at least 0.2–0.4 ng/well of recombinant Human Visfatin. Sandwich ELISA: To detect Human Visfatin by Sandwich ELISA (using 100µl/well antibody solution) a concentration of 0.25-1.0 µg/ml of this antibody is required. This Biotin conjugated, in conjunction with Purified Anti-Human Visfatin (AP23431PU-N or AP23431PU-S) as a capture antibody, allows the detection of at least 0.2-0.4 ng/well of recombinant Human Visfatin. Western Blot: To detect Human Visfatin by Western Blot analysis this antibody can be used at a concentration of 0.1-0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant Human Visfatin is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Highly pure E.coli derived recombinant Human Visfatin.
Specificity:	Recognizes Visfatin.
Formulation:	PBS, pH 7.2 without preservatives Label: Biotin State: Lyophilized (sterile filtered) purified Ig fraction
Reconstitution Method:	Centrifuge vial prior to opening. Restore in sterile PBS containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml.
Purification:	Affinity Chromatography.
Conjugation:	Biotin



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Storage:	Store the lyophilized antibody at -20°C. Following reconstitution it is stable for two weeks at 2-8°C. Frozen aliquots are stable for 6 months when stored at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	nicotinamide phosphoribosyltransferase
Database Link:	<u>Entrez Gene 10135 Human</u> <u>P43490</u>
Background:	Visfatin, a newly identified adipocytokine ,which is predominantly secreted from visceral adipose tissue both in humans and mice . Visfatin corresponds to a protein identified previously as pre-B cell colony-enhancing factor (PBEF). Visfatin exerted insulin-mimetic effects in cultured cells, various insulin-sensitive tissues such as liver, muscle, and fat, and lowered plasma glucose levels in mice. Mice heterozygous for a targeted mutation in the visfatin gene had modestly higher levels of plasma glucose relative to wild-type littermates. visfatin binds to and activates the insulin receptor. Which may lead to new insights into glucose homeostasis and/or new therapies for metabolic disorders such as diabetes. Excess adiposity is the most important risk in the development of insulin resistance and type 2 diabetes mellitus (T2DM). Adipose tissue produces several proteins (adipocytokines) such as leptin, adiponectin, resistin, tumor necrosis factor-alpha, and IL-6, that modulate insulin sensitivity and appear to play an important role in the pathogenesis of insulin resistance, diabetes, dyslipidemia, inflammation, and atherosclerosis. However, the mechanisms by which fat tissue induces insulin resistance and the role of adipocytokines in the pathogenesis of T2DM have not been well established. Visfatin, also known as pre-B cell colony-enhancing factor (PBEF), is a cytokine that is highly expressed in visceral fat and was originally isolated as a secreted factor that synergizes with IL-7 and stem cell factors to promote the growth of B cell precursors. Visfatin homologs have been identified in carp, invertebrate mollusks , and bacteria, as well as in vertebrates, including humans and the mouse. It has been postulated to play a role in innate immunity. Visfatin exerts insulin-mimetic effects, visfatin was as effective as insulin in stimulating muscle and adipocyte glucose transport, and in inhibiting hepatocyte glucose production. Intravenous injection of recombinant visfatin in mice decreased plasma glucose for und
	NAmPRTase, PBEF, PBEF1
Synonyms:	

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Protein Pathways: Nicotinate and nicotinamide metabolism

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