

Product Datasheet

PBEF/Visfatin/NAMPT Antibody - BSA Free NB100-594

Unit Size: 100 ul

Store at 4C. Do not freeze.

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Publications: 10

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NB100-594

PBEF/Visfatin/NAMPT Antibody - BSA Free

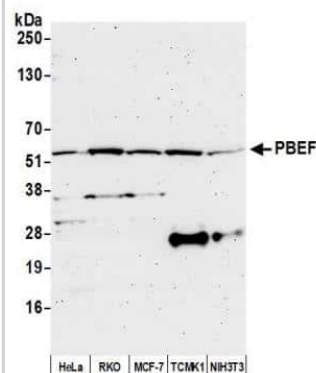
Product Information	
Unit Size	100 ul
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Citrate/Phosphate (pH 7.0 - 8.0)
Target Molecular Weight	56 kDa

Product Description	
Description	Novus Biologicals Rabbit PBEF/Visfatin/NAMPT Antibody - BSA Free (NB100-594) is a polyclonal antibody validated for use in IHC, WB and IP. Anti-PBEF/Visfatin/NAMPT Antibody: Cited in 10 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	10135
Gene Symbol	NAMPT
Species	Human, Mouse
Immunogen	The immunogen recognized by this antibody maps to a region between residues 400 and 450 of human pre-B-cell colony enhancing factor 1 using the numbering given in Swiss-Prot entry P43490 (GenelD 10135).

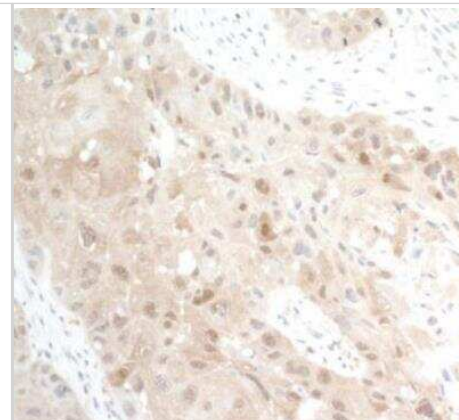
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot 1:10000 - 1:25000, Immunohistochemistry 1:2000 - 1:10000, Immunoprecipitation 2 - 10 ug/mg lysate, Immunohistochemistry-Paraffin 1:2000 - 1:10000
Application Notes	Epitope retrieval with Citrate buffer pH6.0 is recommended for FFPE tissue sections.

Images

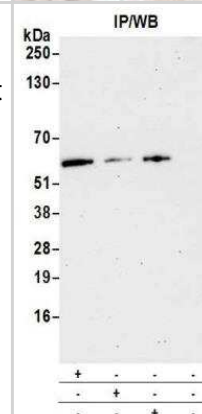
Western Blot: PBEF/Visfatin/NAMPT Antibody [NB100-594] - Samples: Whole cell lysate (50 ug) from HeLa, RKO, MCF-7, TCMK-1, and NIH 3T3 cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-PBEF antibody used for WB at 0.04 ug/ml. Detection: Chemiluminescence with an exposure time of 3 minutes.



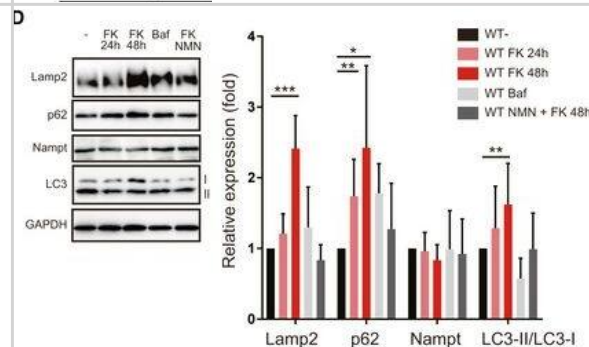
Immunohistochemistry-Paraffin: PBEF/Visfatin/NAMPT Antibody [NB100-594] - Section of human head and neck squamous cell carcinoma. Antibody: Affinity purified rabbit anti-PBEF used at a dilution of 1:5,000 (0.2ug/ml). Detection: DAB



Western Blot: PBEF/Visfatin/NAMPT Antibody [NB100-594] - Samples: Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from HeLa cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-PBEF antibody used for IP at 6 ug per reaction. PBEF was also immunoprecipitated by a previous lot of this antibody and rabbit anti-Visfatin antibody. For blotting immunoprecipitated PBEF, Antibody was used at 0.04 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.



The Nampt inhibitor, FK866, decreased NAD⁺ contents and lysosomal function. Time course of intracellular NAD⁺ or NADH content after addition of the Nampt inhibitor, FK866 (n = 3) in WT MEF cells. The right panel shows what FK866 inhibits in the NAD synthesis pathway. Lysosomal activity was measured by DQ-BSA in WT and p32KO MEFs. Error bars are presented as mean +/- SEM of three independent experiments. Statistical significance was assessed by Student's t-test, **P < 0.002. To monitor autophagosomes and autolysosomes, DAPI and DALGreen were used. DALGreen fluorescence is enhanced at an acidic pH and is suitable for monitoring the autophagy degradation stage, also known as the autolysosome stage. In contrast, DAPI has a pH-independent fluorescence profile and remains fluorescent with almost constant intensity throughout the process of autophagy. Western blot analysis of Lamp2, p62, Nampt, and LC3. Treatment of WT MEFs with FK866 increased the expression of Lamp2, p62, and LC3. When bafilomycin A or FK866 plus NMN were added, the expression of these proteins did not change. One representative experiment out of three shown. Quantification is shown on the right side. The values are mean +/- SD of three independent experiments. Statistical significance was assessed by Student's t-test, *P < 0.05, **P < 0.01, ***P < 0.005 (n = 4 per group). Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/33528041>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

V. V. Sobolev, A. V. Mezentsev, R. H. Ziganshin, A. G. Soboleva, M. Denieva, I. M. Korsunskaya, O. A. Svitich, Angela Chambery LC-MS/MS analysis of lesional and normally looking psoriatic skin reveals significant changes in protein metabolism and RNA processing PLoS ONE 2021-05-26 [PMID: 34038424]

Yagi M, Toshima T, Amamoto R et al. Mitochondrial translation deficiency impairs NAD⁺ -mediated lysosomal acidification The EMBO journal 2021-02-02 [PMID: 33528041] (WB, Mouse)

Meier FM, Frommer KW, Peters MA et al. Visfatin/pre-B-cell colony-enhancing factor (PBEF), a proinflammatory and cell motility-changing factor in rheumatoid arthritis. J Biol Chem 2012-08-01 [PMID: 22767598]

Yang HJ, Yen MC, Lin CC et al. A combination of the metabolic enzyme inhibitor APO866 and the immune adjuvant L-1-methyl tryptophan induces additive antitumor activity. Exp Biol Med (Maywood) 2010-07-01 [PMID: 20558841]

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van der Veer E, Ho C, O'Neil C et al. Extension of human cell lifespan by nicotinamide phosphoribosyltransferase. J Biol Chem 2007-04-01 [PMID: 17307730]

Tan BK, Chen J, Digby JE et al. Increased visfatin messenger ribonucleic acid and protein levels in adipose tissue and adipocytes in women with polycystic ovary syndrome: parallel increase in plasma visfatin. J Clin Endocrinol Metab 2006-12-01 [PMID: 17003086]

Ye SQ, Simon BA, Maloney JP et al. Pre-B-cell colony-enhancing factor as a potential novel biomarker in acute lung injury. Am J Respir Crit Care Med 2005-02-01 [PMID: 15579727]





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Products Related to NB100-594

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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