PBEF/NAMPT (D1K6D) Rabbit						Ell Signaling	
Store					Orders:	877-616-CELL (2355) orders@cellsignal.com	
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#				3 Trask L	ane Danvers Ma	assachusetts 01923 USA	
For Research Use Only. Not for Use in Diagnostic Procedures.							
Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 52	Source/Isotype: Rabbit IgG	UniProt ID: #P43490	Entrez-Gene Id: 10135	
Product Usage	Application			Dilution			
Information	Western Blotting			1:1000			
	Imm	unoprecipitation			1:200		
Storage	Supplied in 10 mM sodium HEPES (p 20°C. Do not aliquot the antibody.		um HEPES (pH 7 antibody.	7.5), 150 mM NaCl, 100 $\mu\text{g/ml}$ BSA and 50% glycerol. Store at –			
Specificity / Sensitivity		PBEF/NAMPT (D1K6D) Rabbit mAb recognizes endogenous levels of total PBEF/NAMPT protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly122 of human PBEF/NAMPT protein.					
Background	Nicot catal phos nicoti secre appli	Nicotinamide phosphoribosyltransferase (NAMPT; also known as Pre-B cell-enhancing factor PBEF) catalyzes the synthesis of nicotinamide mononucleotide (NMN) from nicotinamide and 5-phosphoribosylpyrophosphate (PRPP), the rate-limiting step in the NAD biosynthesis pathway starting from nicotinamide (1,2). NAD biosynthesis mediated by NAMPT plays a critical role in glucose-stimulated insulin secretion in pancreatic beta cells (3). Both NAMPT inhibitors and activators have been sought for clinical applications (4,5). NAMPT has intra- and extracellular forms (iNAMPT and eNAMPT), and deacetylation of				ting factor PBEF) Ind 5- is pathway starting from ucose-stimulated insulin een sought for clinical T), and deacetylation of	

	iNAMPT by SIRT1 promotes eNAMPT secretion through a nonclassical secretory pathway (3,6). eNAMPT, independent of its enzymatic activity, can induce epithelial-to-mesenchymal transition in mammary epithelial cells and promote monocyte differentiation into a tumor-supporting M2 macrophage (7,8).
Background References	1. Imai, S. (2009) <i>Curr Pharm Des</i> 15, 20-8.
5	2. Samal, B. et al. (1994) <i>Mol Cell Biol</i> 14, 1431-7.
	3. Revollo, J.R. et al. (2007) <i>Cell Metab</i> 6, 363-75.
	4. Montecucco, F. et al. (2013) Curr Drug Targets 14, 637-43.
	5. Wang, G. et al. (2014) <i>Cell</i> 158, 1324-34.
	6. Yoon, M.J. et al. (2015) <i>Cell Metab</i> 21, 706-17.

	7. Soncini, D. et al. (2014) <i>J Biol Chem</i> 289, 34189-204. 8. Audrito, V. et al. (2015) <i>Blood</i> 125, 111-23.
Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting IP: Immunoprecipitation
Cross-Reactivity Key	 H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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