

¥61122

PBEF/NAMPT (D1K6D) Rabbit mAb



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP, IHC-P	Reactivity:	Sensitivity: Endogenous	MW (kDa): 52	Source/Isotype: Rabbit IgG	UniProt ID: #P43490	Entrez-Gene Id: 10135
Product Usage Information		Application Western Blotting Immunoprecipitation Immunohistochemist			Dilution 1:1000 1:200 1:1600 - 1:64	00
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
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		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 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).				
1. Imai, S. (2009) Curr Pharm Des 15, 20-8. 2. Samal, B. et al. (1994) Mol Cell Biol 14, 1431-7. 3. Revollo, J.R. et al. (2007) Cell Metab 6, 363-75. 4. Montecucco, F. et al. (2013) Curr Drug Targets 14, 637-43. 5. Wang, G. et al. (2014) Cell 158, 1324-34. 6. Yoon, M.J. et al. (2015) Cell Metab 21, 706-17. 7. Soncini, D. et al. (2014) J Biol Chem 289, 34189-204. 8. Audrito, V. et al. (2015) Blood 125, 111-23.						
Species Reactivit	v	·	<u> </u>	g in at least one approve	ed application (e.g.,	western hlot)

Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot BufferIMPORTANT: 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 W: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin)

Cross-Reactivity Key H: Human

Trademarks and Patents Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for

more information.

Limited Uses Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST,

the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no

force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.