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-20C
#23887**PANK1 (D2W3N) Rabbit mAb**

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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: W, IP	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 50	Source/Isotype: Rabbit IgG	UniProt ID: #Q8TE04	Entrez-Gene Id: 53354
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Product Usage Information	Application Western Blotting Immunoprecipitation	Dilution 1:1000 1:50
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.	
Specificity/Sensitivity	PANK1 (D2W3N) Rabbit mAb recognizes endogenous levels of total PANK1 protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro153 of human PANK1 protein.	
Background	Pantothenate kinase 1 (PANK1) is the rate-limiting enzyme in coenzyme A (CoA) synthesis (1,2). PPARα-mediated transcriptional regulation of PANK1 plays an important role in controlling CoA levels in hepatocytes (1). Research studies indicate that PANK1 expression, along with microRNA-107, decreases in a murine macrophage model upon lipopolysaccharide (LPS) exposure in a PPARα-dependent manner (3). Additional studies show that the corresponding <i>PANK1</i> gene is a direct target of tumor suppressor p53 and that p53 regulates energy homeostasis through control of PANK1 expression (2).	
Background References	<ol style="list-style-type: none"> 1. Ramaswamy, G. et al. (2004) <i>J Lipid Res</i> 45, 17-31. 2. Wang, S.J. et al. (2013) <i>Cell Cycle</i> 12, 753-61. 3. Hennessy, E.J. et al. (2011) <i>J Biol Chem</i> 286, 25531-9. 	

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	W: Western Blotting IP: Immunoprecipitation
Cross-Reactivity Key	H: Human Mk: Monkey
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