Revision 1

ENPP1 Antibody ENPP1 Antibody Orders: 877-616-CELL (2355)
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa): 140	Source/Isotype:	UniProt ID: #P22413	Entrez-Gene Id:
Product Usage		Application		- Habbit	Dilution	
Information		Western Blotting			1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		ENPP1 Antibody detects endogenous levels of total ENPP1 protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln815 of human ENPP1. Antibodies were purified by protein A and peptide affinity chromatography.				
Background	Ectonucleotide pyrophosphatase-phosphodiesterase 1 (ENPP1) is a single-pass, type II transmembra protein primarily involved in ATP hydrolysis at the plasma membrane. Targeting of ENPP1 to the basolateral cell surface relies on the presence of a carboxy-terminal di-leucine-based signal (1). ENPF plays important roles in bone mineralization and soft tissue calcification (2-5). Mutations in the corresponding <i>ENPP1</i> gene cause generalized arterial calcification in infancy (GACI) and idiopathic infantile arterial calcification (IIAC) (6,7). ENPP1 inhibits insulin receptor function and overexpression this enzyme causes insulin resistance and glucose intolerance in mice (8,9). Genetic variants of ENPP have been associated with obesity and type 2 diabetes (10-12).					II transmembrane IPP1 to the signal (1). ENPP1 ons in the nd idiopathic overexpression of ariants of ENPP1
Background Re	eferences	1. Bello, V. et al. (2001) 2. Okawa, A. et al. (199 3. Nakamura, I. et al. (19 5. Harmey, D. et al. (200 5. Hessle, L. et al. (200 6. Rutsch, F. et al. (2005) 7. Ruf, N. et al. (2005) 8. Dong, H. et al. (2005) 9. Maddux, B.A. et al. (10. Meyre, D. et al. (200 11. Keene, K.L. et al. (2 12. Bacci, S. et al. (200	Mol Biol Cell 12, 30 18) Nat Genet 19, 27 1999) Hum Genet 1 104) Am J Pathol 164 2) Proc Natl Acad So 3) Nat Genet 34, 37 Hum Mutat 25, 98. 5) Diabetes 54, 367- 2006) Am J Physiol 05) Nat Genet 37, 8 2008) Diabetes 57, 1 7) Curr Opin Clin N	004-15. 71-3. 04, 492-7. 4, 1199-209. <i>ci USA</i> 99, 9445-9. 9-81. 72. <i>Endocrinol Metab</i> 290, E7 63-7. 057-62. <i>utr Metab Care</i> 10, 403-9.	746-9.	
Species Reactiv	/ity	Species reactivity is de	termined by testing	g in at least one approved	d application (e.g., v	vestern blot).
Western Blot B	uffer	IMPORTANT: For weste TBS, 0.1% Tween® 20	ern blots, incubate at 4°C with gentle s	membrane with diluted p haking, overnight.	primary antibody in	5% w/v BSA, 1X
Applications Ke	ey	W: Western Blotting				
Cross-Reactivit	у Кеу	H: Human				
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