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PCSK7 (D4I5G) Rabbit mAb



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Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 92	Source/Isotype: Rabbit IgG	UniProt ID: #Q16549	Entrez-Gene Id: 9159	
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/Sen	sitivity	PCSK7 (D4I5G) Rabbit mAb recognizes endogenous levels of total PCSK7 protein.					
Source / Purific	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu630 of human PCSK7 protein.					
Background		PCSK7 (PC7) is a member of the subtilisin-like proprotein convertase family (1,2). Like other members of the family, the protein cleaves precursors at basic amino acids within the motif Arg/Lys-Xn-Arg (cleavage site) (n=2 or 4). PC7 was reported to be localized in the trans-golgi network and at the cell surface membrane, as well as in membrane internalized recycling vesicles (2,3). One function of PCSK7 is its critical role in growth factors processing, for example proEGF to EGF, proVEGF-C to VEGF-C, and BDNF neuropeptide maturation. PCSK7 is also involved in transferrin receptor shedding to regulate ion homeostasis (7,8) and MHC class I stability to regulate antigen presentation in the immunoresponse process (9).					
Background Re	eferences	 Seidah, N.G. and Prat, A. (2012) <i>Nat Rev Drug Discov</i> 11, 367-83. Rousselet, E. et al. (2011) <i>J Biol Chem</i> 286, 2728-38. Declercq, J. et al. (2012) <i>J Biol Chem</i> 287, 9052-60. Rousselet, E. et al. (2011) <i>J Biol Chem</i> 286, 9185-95. Siegfried, G. et al. (2003) <i>J Clin Invest</i> 111, 1723-32. Wetsel, W.C. et al. (2013) <i>Proc Natl Acad Sci U S A</i> 110, 17362-7. Oexle, K. et al. (2011) <i>Hum Mol Genet</i> 20, 1042-7. Guillemot, J. et al. (2013) <i>Hepatology</i> 57, 2514-24. Leonhardt, R.M. et al. (2010) <i>J Immunol</i> 184, 2985-98. 					
Species Reactiv	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot B	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 K	ey	W: Western Blotting IP: Immunoprecipitation					
Cross-Reactivit	ty Key	H: Human					
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