PC2 (D1E1S) XP[®] Rabbit mAb Store at -20C 34 Orders: 4013 Support: Web: For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP, IHC-P, IF-F, IF- IC	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 65-75	Source/Isotype: Rabbit IgG	UniProt ID: #P16519	Entrez-Gene Id: 5126	
Product Usage Information		Application Western Blotting Immunoprecipitation Immunohistochemistr Immunofluorescence (Immunofluorescence (y (Paraffin) (Frozen) Immunocytochem	istry)		Dilution 1:1000 1:50 1:3200 1:800 1:800	
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. <i>Do not aliquot the antibody.</i>					
		For a carrier free (BSA	and azide free) ver	sion of this product see	product #33990.		
Specificity/Sensitivity		PC2 (D1E1S) XP [®] Rabbit mAb recognizes endogenous levels of total PC2 protein.					
Species predicted to react based on 100% sequence homology		Xenopus, Bovine, Horse					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro194 of human PC2 protein.					
Background		The proprotein conver cleavage within the see specific proteinases (fu convertases (S1P and F for secretory pathway catalytic domain conta enzyme by regulating s with the membrane (2) bioactive peptides and Unlike what is observe introduction of a neom viability (4). PC2 inactiv involvment of PC2 in th processing of several r	tases (PCs) are enz cretory pathway. P rrin, PC1/3, PC2, PC PC9) (1). PCs have a targeting; a pro-dc ining the active sit stability, calcium-, a). PCs act in a tissue proteins from pre d with furin whose sycin resistance ge ration leads to alter the conversion of pr peuroendocrine pe	ymes that activate precu Cs comprise several enzy C4, PACE4, PC5/6, and PC common structure that omain that is thought to e; a P-domain that contri and pH-dependence; and e- and substrate-specific cursors, both in the brain gene invalidation is leth ne into the third exon of ration of the pancreatic i ro-insulin and pro-glucag ptide precursors such as	rsor proteins throu rmes that are basic 7), as well as nonb- includes an N-tern act as an intramole butes to the overa d a C-terminal dom fashion to generat n and the peripher al, inactivation of r the <i>PCSK2</i> gene do slet cells, in agreen jon (5). PC2 is also pro-CCK, POMC, a	ugh proteolytic amino acid- asic amino acid ninal signal peptide cular chaperone; a ll folding of the ain that interacts te an array of y (3). mouse PC2 by the bes not alter mouse nent with the responsible for the nd neurotensin (6).	
Background Ref	erences	1. Scamuffa, N. et al. (2 2. Fugère, M. and Day, 3. Seidah, N.G. and Chi 4. Rouillé, Y. et al. (199 5. Steiner, D.F. et al. (19 6. Scamuffa, N. et al. (2 7. Moffett, R.C. et al. (2	2006) FASEB J 20, 19 R. (2005) Trends P. rétien, M. (1999) Bi 5) Front Neuroend 96) Diabetes Meta 2006) FASEB J 20, 19 014) PLoS One 9, e	954-63. harmacol Sci 26, 294-301 'ain Res 848, 45-62. ocrinol 16, 322-61. b 22, 94-104. 954-63. 96863.			
Species Reactivi	ty	Species reactivity is de	termined by testing	g in at least one approve	d application (e.g.,	western blot).	
Western Blot Bu	ıffer	IMPORTANT: For weste TBS, 0.1% Tween® 20 a	ern blots, incubate at 4°C with gentle s	membrane with diluted shaking, overnight.	primary antibody i	n 5% w/v BSA, 1X	
Applications Key		W: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-F: Immunofluorescence (Frozen) IF-IC: Immunofluorescence (Immunocytochemistry)					



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Cross-Reactivity Key	H: Human M: Mouse R: Rat
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