PASK (C70B2) Rabbit mAb



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Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 170	Source/Isotype: Rabbit IgG	UniProt ID: #Q96RG2	Entrez-Gene Id: 23178
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 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		PASK (C70B2) Rabbit mAb detects endogenous levels of total PASK protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the sequence of mouse PASK.				
PASK is a serine/threonine kinase that contains two PAS (Per-Arnt-Sim) domains up-regulated by autophosphorylation of the activation loop within its catalytic d in cis by one of the PAS domains (1). Studies found that the yeast homolog of PA inhibits two enzymes required for glycogen biosynthesis: UDP-glucose pyrophorylation glycogen synthase, resulting in the decrease of carbohydrate storage (2). Further increased glucose levels activate PASK activity and enhance its expression in partice sessential for the glucose-stimulated expression of preproinsulin and Pdx1, surregulation of genes involved in pancreatic β-cell functions (3). PASK was shown the glucose-stimulated insulin secretion in pancreatic β-cells (4). The absence of PASK from obesity and insulin resistance when they are fed a high-fat diet (4). These for PASK functions as an important metabolic sensor in various cells (4).						in and is inhibited phosphorylates and prylase and pudies showed that attention (3). PASK atting its role in the excitical for so protects animals
Background R	eferences	 Rutter, J. et al. (2001) Proc Natl Acad Sci USA 98, 8991-6. Rutter, J. et al. (2002) Cell 111, 17-28. da Silva Xavier, G. et al. (2004) Proc Natl Acad Sci USA 101, 8319-24. Hao, H.X. et al. (2007) Proc Natl Acad Sci USA 104, 15466-71. 				
Species Reacti	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).

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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 M: Mouse R: Rat

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