PKG-1 (C8A4) Rabbit mAb



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Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 78	Source/Isotype: Rabbit IgG	UniProt ID: #Q13976	Entrez-Gene Id 5592
Product Usage Information		Application Western Blotting			Dilution 1:1000	
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		PKG-1 (C8A4) Rabbit mAb detects endogenous levels of total PKG-1 protein, including both α and β isoforms. The antibody does not cross-react with PKG-2.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to cental residues of human PKG-1.				
Background		In mammals, two gen which display tissue-s by increased cellular of change and leading to cyclases, a process kn In addition to well est signaling is important	es encode PKG-1 ar pecific expression p GMP, which binds t o enzyme activation own to occur in par ablished roles in pla in many biological	belong to the AGC family PKG-2. Alternative PK betterns in humans (1). A othe enzyme's regulato a cGMP levels are increat through nitric oxide (Natelet activation and smuprocesses including carmuscle, and erectile dys	G-1 splicing yields on the self of the sel	a and β isoforms, pers are activated a conformational ivation of guanylyl ion (3), PKG
Background References		1. Orstavik, S. et al. (1997) <i>Genomics</i> 42, 311-8. 2. Friebe, A. and Koesling, D. (2003) <i>Circ Res</i> 93, 96-105. 3. Lincoln, T.M. et al. (2001) <i>J Appl Physiol</i> 91, 1421-30. 4. Hofmann, F. et al. (2006) <i>Physiol Rev</i> 86, 1-23.				
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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting				
Cross-Reactivity Key		H: Human M: Mouse R: Rat Mk: Monkey				
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