3511 Store at -200

PKG-1α (D10G2) Rabbit mAb



Orders:

877-616-CELL (2355) orders@cellsignal.com

Support:

877-678-TECH (8324)

Web:

info@cellsignal.com cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 78	Source/Isotype: Rabbit IgG	UniProt ID: #Q13976	Entrez-Gene Id: 5592
Product Usage Information	•	plication		Dilution		
mormation	We	estern Blotting			1:1000	
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		PKG-1 α (D10G2) Rabbit mAb recognizes endogenous levels of total PKG-1 α protein. This antibody does not cross-react with PKG-1 β .				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human PKG- 1α protein.				
Background	In m whice increand proc In a is in	nammals, two genes on display tissue-spi eased cellular cGMI leading to enzyme cess known to occurus ddition to well estab portant in many bio	ndent kinases (cGK/PKG) belong to the AGC family of serine/threonine protein kinases. genes encode PKG-1 and PKG-2. Alternative PKG-1 splicing yields α and β isoforms, ue-specific expression patterns in humans (1). All PKG family members are activated by cGMP, which binds to the enzyme's regulatory domain inducing a conformational change tyme activation. cGMP levels are increased through the activation of guanylyl cyclases, a occur in part through nitric oxide (NO) signaling (2). established roles in platelet activation and smooth muscle relaxation (3), PKG signaling ny biological processes including cardiac contractility, axon guidance, bone growth, stinal smooth muscle, and erectile dysfunction (4).			
 Drstavik, S. et al. (1997) Genomics 42, 311-8. Friebe, A. and Koesling, D. (2003) Circ Res 93, 96-105. Lincoln, T.M. et al. (2001) J Appl Physiol 91, 1421-30. Hofmann, F. et al. (2006) Physiol Rev 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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

Trademarks and **Patents**

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more

information.

Limited Uses

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or

PKG-1α (D10G2) Rabbit mAb (#13511) Datasheet Without Images Cell Signaling Technology

therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.