

13490

PACT (D9N6J) 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: W, IP, eCLIP	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 30	Source/Isotype: Rabbit IgG	UniProt ID: #075569	Entrez-Gene Id: 8575
Product Usage Information		Application Western Blotting Immunoprecipitation eCLIP For more information a	about the RBP-eCL	IP service please visit Ecl	Dilution 1:1000 1:50 1:200 lipsebio.	
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		PACT (D9N6J) Rabbit mAb recognizes endogenous levels of total PACT protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human PACT protein.				
Background		PACT (protein activator of protein kinase R) is a double stranded RNA binding protein and a cellular activator of PKR (protein kinase R), a kinase that mediates the antiviral and antiproliferative actions of interferon (1). Stress signals such as serum starvation and arsenite treatment induces PACT to heterodimerize with PKR, resulting in the phosphorylation of eIF-2α and inhibition of protein synthesis (1,2). PACT has also been shown to play a role in RNA-mediated gene silencing by stimulating the activity of Dicer, thereby affecting the efficiency of miRNA accumulation and siRNA gene silencing (3,4). More recently, PACT has been shown to interact with RIG-I, a sensor of viral nucleic acids, and stimulates RIG-I-induced type I interferon production (5). Researchers have found that mutations in PACT are associated with dystonia, a movement disorder where patients develop involuntary muscle contractions and postures (6-8).				
Background Re	eferences	 Patel, R.C. and Sen, G.C. (1998) EMBO J 17, 4379-90. Patel, C.V. et al. (2000) J Biol Chem 275, 37993-8. Lee, Y. et al. (2006) EMBO J 25, 522-32. Koscianska, E. et al. (2011) PLoS One 6, e28548. Kok, K.H. et al. (2011) Cell Host Microbe 9, 299-309. Bragg, D.C. et al. (2011) Neurobiol Dis 42, 136-47. Camargos, S. et al. (2008) Lancet Neurol 7, 207-15. Seibler, P. et al. (2008) Lancet Neurol 7, 380-1. 				

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 W: Western Blotting IP: Immunoprecipitation eCLIP: eCLIP

Cross-Reactivity Key H: Human Mk: Monkey

Trademarks and Patents Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

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

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

 $more\ information.$

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 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.