

PREX1 (D8O8D) Rabbit mAb



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Applications: W, IF-IC	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 190, 110	Source/Isotype: Rabbit IgG	UniProt ID: #Q8TCU6	Entrez-Gene Id: 57580
Product Usage Information		Application Western Blotting Immunofluorescence	(Immunocytochem	istry)		Dilution 1:1000 1:400
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		PREX1 (D8O8D) Rabbit mAb recognizes endogenous levels of total PREX1 protein. This antibody will recognize both isoform 1 (190 kDa) and isoform 2 (110 kDa) human PREX1, but has not been observed to cross-react with human PREX2 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding His770 of human PREX1 protein.				
Background		specific GTP-exchange second messenger Pt homology) domains the homology domain, where we will be seen and downst of neutrophils by Racamigration. PREX1 proportion integrity, and that PREX1 plays an ecoordinating Rac activation of PREX1 deactivation, increased in (15,16). Consistent will melanoma metastasis correlates with increathat PREX Rac-GEF act and may require coinciders.	e factor (GEF) regular dIns(3,4,5)P ₃ (1-4). I hat coordinate hete hich exhibits Rac-GI tream signaling con 2 activation (5-8), it motes metastasis of a sequired for plate system of ErbB; migration, proliferath this observation, sed tumor progressivity is enhanced by cident dephosphory	Ins(3,4,5)P ₃)-dependent ated by heterotrimeric GPEX1 contains two DEP rotrimeric G-protein significations and PH and Phoponents (1). Originally significate that PREX1 plays for prostate cancer and funiating ErbB-dependent so paracrine signals with and EGFR chemokiner tion, tumorigenesis, and deletion of PREX1 exprese PREX1 in human tumorision and poor survival (1) phosphorylation in resultation of two PH domain remains elusive (15,1)	-protein β/γ subun (Dishevelled, Egl-1) naling. It also conta DZ domains for into shown to modulate a broader role in n elanoma cells, affec ction (9-14). Resear signaling events in in the tumor micro- eceptors (CXCR4) p I metastasis in brea ession in mice resul- s transplanted into 5). Additional resea- ponse to growth fa a serine residues. T	its and the lipid 0, and Pleckstrin ains a Dbl- eracting with e cellular migration nodulating cell cts endothelial rch studies suggest breast cancer by environment. romotes Rac ast cancer cells ts in resistance to mice inversely arch studies suggest ctors or hormones,
Background References		1. Welch, H.C. et al. (2002) <i>Cell</i> 108, 809-21. 2. Hill, K. et al. (2005) <i>J Biol Chem</i> 280, 4166-73. 3. Mayeenuddin, L.H. and Garrison, J.C. (2006) <i>J Biol Chem</i> 281, 1921-8. 4. Barber, M.A. et al. (2007) <i>J Biol Chem</i> 282, 29967-76. 5. Welch, H.C. et al. (2005) <i>Curr Biol</i> 15, 1867-73. 6. Dong, X. et al. (2005) <i>Curr Biol</i> 15, 1874-9. 7. Zhao, T. et al. (2007) <i>J Leukoc Biol</i> 81, 1127-36. 8. Nie, B. et al. (2010) <i>Cell Signal</i> 22, 770-82. 9. Qin, J. et al. (2009) <i>Oncogene</i> 28, 1853-63. 10. Wong, C.Y. et al. (2011) <i>J Biol Chem</i> 286, 25813-22. 11. Lindsay, C.R. et al. (2011) <i>Nat Commun</i> 2, 555. 12. Qian, F. et al. (2012) <i>Arterioscler Thromb Vasc Biol</i> 32, 768-77. 13. Naikawadi, R.P. et al. (2012) <i>Circ Res</i> 111, 1517-27. 14. Campbell, A.D. et al. (2011) <i>Oncogene</i> 30, 1059-71.				

16. Sosa, M.S. et al. (2010) *Mol Cell* 40, 877-92. 17. Montero, J.C. et al. (2013) *Cell Signal* 25, 2281-9. 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 IF-IC: Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key H: Human Mk: Monkey

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