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RKIP (D42F3) Rabbit mAb							
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For Research Use Or	nly. Not for Use in	Diagnostic Proce	edures.				
Applications: WB. IHC-P	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 21	Source/Isotype: Rabbit IgG	UniProt ID: #P30086	Entrez-Gene Id: 5037	

WB, IHC-P H M R		21	Rabbit IgG	#P30086	5037			
Product Usage Information	Application Western Blotting Immunohistochemistry	(Paraffin)		1	ilution :1000 :800			
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 aliguot the antibody.							
Specificity / Sensitivity	RKIP (D42F3) Rabbit m	I RKIP protein.						
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly38 of human RKIP protein.							
Background Background References	<ul> <li>Raf kinase inhibitor protein (RKIP) is a member of the phosphatidylethanolamine-binding protein (PEBP) family that associates with Raf-1 and the MEK and MAP kinases (1). RKIP has been shown to form a complex with Raf-1, MEK, and Erk (2). Although MEK and Erk can simultaneously bind RKIP, the association between Raf-1 and RKIP and that of RKIP and MEK are mutually exclusive. Thus, RKIP competitively disrupts the Raf-1-MEK complex and effectively terminates signal transmission from Raf-1 to MAP kinases (2). The inhibitory effect of RKIP on MAP kinase signaling is eliminated by PKC phosphorylation of RKIP at Ser153 (3). PKC phosphorylation on Ser153 also promotes the association of RKIP with GRK2, which prevents GRK2-dependent internalization of GPCR (4). RKIP also interacts with modules of the NF-κB pathway, including NF-κB-inducing kinase (NIK), TAK1, IKKα and IKKβ (5). These interactions antagonize cytokine-induced activation of the NF-κB pathway (5). Restoration of RKIP expression is associated with the inhibition of prostate cancer metastasis, implying that RKIP may be a potential clinical target as a suppressor of tumor metastasis through inhibition of vascular invasion (6).</li> <li>1. Yeung, K. et al. (2000) <i>Mol Cell Biol</i> 20, 3079-85.</li> <li>3. Corbit, K.C. et al. (2003) <i>J Biol Chem</i> 278, 13061-8.</li> <li>4. Lorenz, K. et al. (2003) <i>Nature</i> 426, 574-9.</li> <li>5. Yeung, K.C. et al. (2001) <i>Mol Cell Biol</i> 21, 7207-17.</li> <li>6. Fu, Z. et al. (2003) <i>J Natl Cancer Inst</i> 95, 878-89.</li> </ul>							
Species Reactivity	Species reactivity is dete	rmined by testing	in at least one approve	ed application (e.g., we	estern blot).			
Western Blot Buffer	IMPORTANT: For wester 0.1% Tween® 20 at 4°C		rimary antibody in 5% w/v BSA, 1X TBS,					
Applications Key	WB: Western Blotting IF	IC-P: Immunohiste	ochemistry (Paraffin)					
Cross-Reactivity KeyH: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: r X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae GP: Guinea Pig Rab: rabbit All: all species expected								
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## RKIP (D42F3) Rabbit mAb (#13006) Datasheet Without Images Cell Signaling Technology

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