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Naked2 (C67C4) Rabbit mAb

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:
W, IP	H	Endogenous	59, 61	Rabbit
Product Usage Information	Application		Dilution	
	Western Blotting		1:1000	
	Immunoprecipitation		1:50	
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	Naked2 (C67C4) Rabbit mAb detects endogenous level of Naked2 protein.			
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala217 of human Naked2.			
Background	Naked1 (Nkd1) and Naked2 (Nkd2) are homologs of <i>Drosophila</i> Naked cuticle, a negative regulator of Wnt/Wingless signaling pathway which functions through a feedback mechanism (1,2). Both <i>Drosophila</i> and vertebrate Naked proteins contain a putative calcium-binding EF-hand motif, however, <i>Drosophila</i> Naked binds to zinc instead of calcium (3). Naked inhibits the canonical Wnt/β-catenin pathway by binding to Dishevelled proteins and directs Dishevelled activity towards the planar cell polarity pathway (2,4). Naked1 is a direct target of Wnt signaling and is overexpressed in some colon tumors due to constitutive activation of Wnt/β-catenin pathway (5). Naked2 is myristoylated and is required for sorting of TGF-α to the basolateral plasma membrane of polarized epithelial cells (6).			
Background References	<ol style="list-style-type: none"> 1. Zeng, W. et al. (2000) <i>Nature</i> 403, 789-795. 2. Wharton, K.A. et al. (2001) <i>Dev. Biol.</i> 234, 93-106. 3. Rousset, R. et al. (2002) <i>J. Biol. Chem.</i> 277, 49019-49026. 4. Yan, D. et al. (2001) <i>Proc. Natl. Acad. Sci. USA</i> 98, 3802-3807. 5. Yan, D. et al. (2001) <i>Proc. Natl. Acad. Sci. USA</i> 98, 14973-14978. 6. Li, C. et al. (2004) <i>Proc. Natl. Acad. Sci. USA</i> 101, 5571-5576. 			

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
Cross-Reactivity Key	H: Human
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