

#2262 Store at -20°C

Naked1 Antibody



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

Applications: WB	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 59, 61	Source: Rabbit	UniProt ID: #Q969G9	Entrez-Gene Id: 85407
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Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	Naked1 antibody detects endogenous levels of total Naked1 proteins.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln227 of human Naked1. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	Naked1 (Nkd1) and Naked2 (Nkd2) are homologs of Drosophila Naked cuticle, a negative regulator of Wnt/Wingless signaling pathway which functions through a feedback mechanism (1,2). Both Drosophila and vertebrate Naked proteins contain a putative calcium-binding EF-hand motif, however, Drosophila 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	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
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