

#2073 Store at -20C

Naked2 (C67C4) Rabbit mAb**Cell Signaling**
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP	H	Endogenous	59, 61	Rabbit	#Q969F2	85409

Product Usage Information**Application**Western Blotting
Immunoprecipitation**Dilution**1:1000
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 *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

1. Zeng, W. et al. (2000) *Nature* 403, 789-795.
2. Wharton, K.A. et al. (2001) *Dev. Biol.* 234, 93-106.
3. Rousset, R. et al. (2002) *J. Biol. Chem.* 277, 49019-49026.
4. Yan, D. et al. (2001) *Proc. Natl. Acad. Sci. USA* 98, 3802-3807.
5. Yan, D. et al. (2001) *Proc. Natl. Acad. Sci. USA* 98, 14973-14978.
6. Li, C. et al. (2004) *Proc. Natl. Acad. Sci. USA* 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 **IP:** Immunoprecipitation**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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