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Store at -20C
#2262

Naked1 Antibody

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

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 59, 61	Source/Isotype: 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

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

W: Western Blotting

Cross-Reactivity Key

H: Human

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