



Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

Store at -20C
#2596

Naked2 (C36D3) Rabbit mAb

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

Applications: W, IP	Reactivity: M	Sensitivity: Transfected Only	MW (kDa): 59, 61	Source/Isotype: Rabbit IgG	UniProt ID: #Q969F2	Entrez-Gene Id: 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 (C36D3) Rabbit mAb detects transfected levels of mouse Naked2.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly47 of mouse 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

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

M: Mouse

Trademarks and Patents

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

U.S. Patent No. 7,429,487, foreign equivalents, and child patents deriving therefrom.

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.

Limited Uses

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in

any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.