



**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  
#2915

## Wnt Signaling Antibody Sampler Kit

1 Kit (9 x 20 microliters)

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

Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
Wnt3a (C64F2) Rabbit mAb	2721	20 µl	42 kDa	Rabbit IgG
Wnt5a/b (C27E8) Rabbit mAb	2530	20 µl	45 kDa	Rabbit IgG
Phospho-LRP6 (Ser1490) Antibody	2568	20 µl	210 kDa	Rabbit
Dvl2 (30D2) Rabbit mAb	3224	20 µl	90 to 95 kDa	Rabbit
LRP6 (C47E12) Rabbit mAb	3395	20 µl	180, 210 kDa	Rabbit IgG
Dvl3 Antibody	3218	20 µl	88 to 93 kDa	Rabbit
Naked1 Antibody	2262	20 µl	59, 61 kDa	Rabbit
Naked2 (C67C4) Rabbit mAb	2073	20 µl	59, 61 kDa	Rabbit
Axin1 (C76H11) Rabbit mAb	2087	20 µl	110 kDa	Rabbit IgG
Anti-rabbit IgG, HRP-linked Antibody	7074	100 µl		Goat

Please visit [cellsignal.com](http://cellsignal.com) for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

### Description

The Wnt Signaling Antibody Sampler Kit provides an economical means of detecting integral proteins within the Wnt signaling pathway. The kit contains enough primary and secondary antibody to perform two Western blots with each.

### 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.

### Background

The Wnt family includes several secreted glycoproteins that play important roles in animal development (1). Aberrant activation of Wnt signaling pathways is involved in several types of cancers (2). Wnt members bind to the Frizzled family of proteins and activate several signaling pathways (3). The canonical Wnt/β-catenin pathway requires a coreceptor from proteins belonging to the low-density lipoprotein receptor (LDLR) family, such as LRP5 and LRP6 (4). Upon stimulation with Wnt, LRP6 is phosphorylated by kinases such as GSK-3 and CK1 and subsequently recruits Axin to the membrane (5-7). In the absence of Wnt stimulation, the multidomain scaffold proteins Axin1 and Axin2 negatively regulate Wnt signaling. Axin1 complexes with APC, GSK-3β, Dvl and β-catenin and promotes the GSK-3β-mediated phosphorylation and subsequent degradation of β-catenin (8-9). The Disheveled (Dsh) proteins (Dvl1, Dvl2 and Dvl3) inhibit glycogen synthase kinase-3β, thereby promoting β-catenin stabilization (4,10). Naked inhibits the canonical Wnt/β-catenin pathway by binding to Dsh proteins and directing Dsh activity towards the planar cell polarity pathway (11-12).

### Background References

1. Cadigan, K.M. and Nusse, R. (1997) *Genes Dev* 11, 3286-305.
2. Giles, R.H. et al. (2003) *Biochim Biophys Acta* 1653, 1-24.
3. Kohn, A.D. and Moon, R.T. *Cell Calcium* 38, 439-46.
4. Logan, C.Y. and Nusse, R. (2004) *Annu Rev Cell Dev Biol* 20, 781-810.
5. Tamai, K. et al. (2000) *Nature* 407, 530-5.
6. Zeng, X. et al. (2005) *Nature* 438, 873-7.
7. Davidson, G. et al. (2005) *Nature* 438, 867-72.
8. Luo, W. and Lin, S.C. *Neurosignals* 13, 99-113.
9. Salahshor, S. and Woodgett, J.R. (2005) *J Clin Pathol* 58, 225-36.
10. Boutros, M. and Mlodzik, M. (1999) *Mech Dev* 83, 27-37.
11. Wharton, K.A. et al. (2001) *Dev Biol* 234, 93-106.
12. Yan, D. et al. (2001) *Proc Natl Acad Sci U S A* 98, 3802-7.

### Trademarks and Patents

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

All other trademarks are the property of their respective owners. Visit [cellsignal.com/trademarks](http://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.