



#9961 Store at -20C

Cadherin-Catenin Antibody Sampler Kit

1 Kit (6 x 20 microliters)

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

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

Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
α -E-Catenin (23B2) Rabbit mAb	3240	20 μ l	100 kDa	Rabbit IgG
N-Cadherin (D4R1H) XP [®] Rabbit mAb	13116	20 μ l	140 kDa	Rabbit IgG
E-Cadherin (24E10) Rabbit mAb	3195	20 μ l	135 kDa	Rabbit IgG
P-Cadherin (C13F9) Rabbit mAb	2189	20 μ l	120 kDa	Rabbit IgG
Pan-Cadherin (28E12) Rabbit mAb	4073	20 μ l	130-150 kDa	Rabbit IgG
β -Catenin (D10A8) XP [®] Rabbit mAb	8480	20 μ l	92 kDa	Rabbit IgG
Anti-rabbit IgG, HRP-linked Antibody	7074	100 μ l		Goat

Please visit cellsignal.com for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

Description

This Cadherin-Catenin Antibody Sampler kit contains reagents to examine the total protein levels of key proteins found in cell-cell adherens junctions. The kit contains enough primary and secondary antibodies to perform two Western blot experiments.

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C . Do not aliquot the antibody.

Background

Adherens junctions are dynamic structures that form cell-cell contacts and are important in development, differentiation, tissue integrity, morphology and cell polarity. They are composed of cadherins that are transmembrane proteins that bind cadherins on adjacent cells in a calcium dependent manner. On the cytoplasmic side of adherens junctions, the cadherins associate with β -catenin, γ -catenin and p120 catenin (δ). β -catenin and γ -catenin associate with α -catenin, which links the cadherin-catenin complex to the actin cytoskeleton (1,2). Recent studies indicate that cancer cells exhibit increased N-cadherin and diminished E-cadherin expression. E-cadherin is considered a suppressor of invasive cancer cell growth and this change in cadherin expression associated with cancer progression is termed the "cadherin switch". β -catenin is one of the key downstream effectors in the Wnt signaling pathway and has been implicated in early embryonic development and tumorigenesis (3-5).

Background References

1. Wheelock, M.J. and Johnson, K.R. (2003) *Annu. Rev. Cell. Dev. Biol.* 19, 207-235.
2. Christofori, G. (2003) *EMBO J.* 22, 2318-2323.
3. Cadigan, K.M. and Nusse, R. (1997) *Genes Dev.* 11, 3286-3305.
4. Wodarz, A. and Nusse, R. (1998) *Annu. Rev. Cell Dev. Biol.* 14, 59-88.
5. Polakis, P. (1999) *Curr. Opin. Genet. Dev.* 9, 15-21.

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 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.