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Cadherin-Catenin Antibody Sampler Kit

1 Kit (6 x 20 microliters)

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.
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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.

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