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CDH2

Reactivity: Human Mouse

Tested applications:WB

Recommended Dilution:WB 1:500 - 1:1000

Calculated MW:100kDa

Observed MW: Refer to Figures

Immunogen:

A synthetic peptide of human CDH2

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

d

Synonym:

CDHN; NCAD; CD325; CDw325; N-Cadherin;

Catalog #:A3045

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID:1000

Isotype: IgG

Swiss Prot:P19022

Purity: Affinity purification

For research use only.

Background:

Cadherins are a superfamily of transmembrane glycoproteins that contain cadherin repeats of approximately 100 residues in their extracellular domain. Cadherins mediate calcium-dependent cell-cell adhesion and play critical roles in normal tissue development (1). The classic cadherin subfamily includes N-, P-, R-, B-, and E-cadherins, as well as about ten other members that are found in adherens junctions, a cellular structure near the apical surface of polarized epithelial cells. The cytoplasmic domain of classical cadherins interacts with -catenin, -catenin (also called plakoglobin), and p120 catenin. -catenin and -catenin associate with -catenin, which links the cadherin-catenin complex to the actin cytoskeleton (1,2). While - and -catenin play structural roles in the junctional complex, p120 regulates cadherin adhesive activity and trafficking (1-4). Investigators consider E-cadherin an active suppressor of invasion and growth of many epithelial cancers (1-3). Recent studies indicate that cancer cells have up-regulated N-cadherin in addition to loss of E-cadherin. This change in cadherin expression is called the "cadherin switch". N-cadherin cooperates with the FGF receptor, leading to overexpression of MMP-9 and cellular invasion (3). Research studies have shown that in endothelial cells, VE-cadherin signaling, expression, and localization correlate with vascular permeability and tumor angiogenesis (5,6). Investigators have also demonstrated that expression of P-cadherin, which is normally present in epithelial cells, is also altered in ovarian and other human cancers (7,8).

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