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CDH5

Reactivity: Human Mouse

Tested applications:WB IHC

Recommended Dilution:WB 1:500 - 1:1000 IHC 1:50 - 1:100

Calculated MW:88kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant protein of human CDH5

Storage Buffer:

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

Synonym:

CDH5; Cadherin-5; 7B4 antigen;VE-Cadherin; Vascular endothelial cadherin ;CD144;

Catalog #:A0734

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID:1003

Isotype: IgG

Swiss Prot:P33151

Purity: Affinity purification

For research use only.

Background:

, 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). E-cadherin is considered 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). In endothelial cells, VE-cadherin signaling, expression, and localization correlate with vascular permeability and tumor angiogenesis (5,6). 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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