



A Reliable Research Partner in Life Science and Medicine

VE-Cadherin/CD144/CDH5 Monoclonal Antibody

catalog number: AN200252P

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Reactivity Rat

Immunogen Recombinant Rat VE-Cadherin/CD144/CDH5 protein

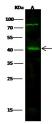
HostMouseIsotypeIgG2aCloneA1106PurificationProtein A

Buffer 0.2 µm filtered solution in PBS

Applications Recommended Dilution

WB 1:500-1:1000

Data



Western Blot with CDH5 Monoclonal Antibody at dilution of

1:500 dilution. Lane A: A549 Whole Cell Lysate,

Lysates/proteins at 30 µg per lane.

Observed-MW:78 kDa Calculated-MW:88 kDa

Preparation & Storage

Storage This antibody can be stored at 2°C-8°C for one month without detectable loss of

activity. Antibody products are stable for twelve months from date of receipt when

stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.

Shipping Ice bag

Background

Cadherins (Calcium dependent adhesion molecules) are a class of transmembrane proteins. Cadherin-5, also known as VE-cadherin, CDH5 and CD144, an endothelial specific cell-cell adhesion molecule, plays a pivotal role in the formation, maturation and remodeling of the vascular wall. VE-Cadherin is widely considered to be specific for vascular endothelia in which it is either the sole or the predominant cadherin, often co-existing with N-cadherin. This specificity of VE-cadherin for vascular endothelial cells is important not only in blood and lymph vessel biology and medicine, but also for cell-type-based diagnoses, notably those of metastatic tumors. As a classical cadherin, VE-Cadherin links endothelial cells together by homophilic interactions mediated by its extracellular part and associates intracellularly with the actin cytoskeleton via catenins. Mechanisms that regulate VE-cadherin-mediated adhesion are important for the control of vascular permeability and leukocyte extravasation. In addition to its adhesive functions, VE-Cadherin regulates various cellular processes such as cell proliferation and apoptosis and modulates vascular endothelial growth factor receptor functions. Consequently, VE-cadherin is essential during embryonic angiogenesis.

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