

Anti-VE-Cadherin Antibody (2K899)

Product Details

Ig Type:	Mouse IgG1
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	2K899
Purification:	Protein A

Applications

Verified Activity:	<p>1. Flow cytometric analysis of Human CD144 expression on HUVEC cells. Cells were stained with purified anti-Human CD144, then a FITC-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.</p> <p>2. Immunofluorescence staining of CDH5 in HUVEC cells. Cells were fixed with 4% PFA, blocked with 10% serum, and incubated with mouse anti-human CDH5 monoclonal antibody (dilution ratio 1:30) at 4°C overnight. Then cells were stained with the Alexa Fluor®488-conjugated Goat Anti-mouse IgG secondary antibody (green). Positive staining was localized to Cell membrane.</p>
Application:	FCM, ICC/IF
Recommended	ICC-IF: 1:10-1:50; FCM: 1:25-1:100

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human VE-Cadherin / CD144 / CDH5 Protein
Antigen Species:	Human
Synonyms:	cadherin 5, type 2 (vascular endothelium)
Biology Area:	Hemangioblast Markers, Cardiac Stem Cell Markers

Research 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

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vascular endothelial growth factor receptor functions. Consequently, VE-cadherin is essential during embryonic angiogenesis.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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