

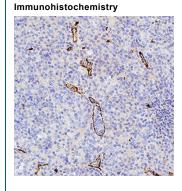
Human VE-Cadherin Antibody

Recombinant Monoclonal Rabbit IgG Clone # 3340A Catalog Number: MAB11726

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects recombinant human VE-CAD protein in Direct ELISA.
Source	Recombinant Monoclonal Rabbit IgG Clone # 3340A
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line, NS0-derived human VE-Cadherin
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.			
	Recommended Concentration	Sample	
Western Blot	1 μg/mL	HUVEC human umbilical vein endothelial cells	
Immunocytochemistry	0.3-3 µg/mL	Immersion fixed HUVEC human umbilical vein endothelial cells	
lmmunohistochemistry	0.5-10 μg/mL	Immersion fixed paraffin-embedder sections of human prostate cancer kidney and placenta	

Detection of Human VE-Cadherin by Western Blot. Western Blot shows lysates of HUVEC human umbilical vein endothelial cells. PVDF membrane was probed with 1 μg/ml of Rabbit Anti-Human VE-Cadherin Monoclonal Antibody (Catalog # MAB11726) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for VE-Cadherin at approximately 125 kDa (as indicated). This experiment was conducted under reducing conditions and using Western Blot Buffer Group 1.



Detection of VE-Cadherin in Human Prostate Cancer. VE-Cadherin was detected in immersion fixed paraffinembedded sections of human prostate cancer using Rabbit Anti-Human VE-Cadherin Monoclonal Antibody (Catalog # MAB11726) at 0.5 µg/ml for 1 hour at room temperature followed by incubation with the Anti-Rabbit IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC003) or the HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using VisUCyte Antigen Retrieval Reagent-Basic (Catalog # VCTS021). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to the membrane. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

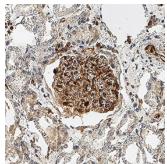
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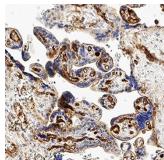
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Immunohistochemistry



Detection of VE-Cadherin in Human Kidnev. VE-Cadherin was detected in immersion fixed paraffin-embedded sections of human kidney using Rabbit Anti-Human VE-Cadherin Monoclonal Antibody (Catalog # MAB11726) at 0.5 μ g/ml for 1 hour at room temperature followed by incubation with the Anti-Rabbit IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC003) or the HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using VisUCyte Antigen Retrieval Reagent-Basic (Catalog # VCTS021). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to the membrane. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

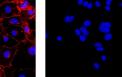
Immunohistochemistry



Detection of VE-Cadherin in Human Placenta, VF-Cadherin was detected in immersion fixed paraffin-embedded sections of human placenta using Rabbit Anti-Human VE-Cadherin Monoclonal Antibody (Catalog # MAB11726) at 0.5 μ g/ml for 1 hour at room temperature followed by incubation with the Anti-Rabbit IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC003) or the HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using VisUCyte Antigen Retrieval Reagent-Basic (Catalog # VCTS021). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to the membrane. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

Immunocytochemistry





Positive (HUVEC cells)

Negative (MCF-7 cells)

Detection of VE-Cadherin in HUVEC cells. VE-Cadherin was detected in immersion fixed HUVEC human umbilical vein endothelial cells (Positive) and absent in MCF-7 human breast cancer cell line (Negative) using Rabbit Anti-Human VE-Cadherin Monoclonal Antibody (Catalog # MAB11726) at 3 µg/ml for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rabbit IgG Secondary Antibody (red; Catalog # NL004) and counterstained with DAPI (blue). Specific staining was localized to the cell surface of HUVEC cells. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

PREPARATION AND STORAGE

Reconstitution Reconstitute lyophilized material at 0.2 mg/ml in sterile PBS. For liquid material, refer to CoA for concentration.

Shipping

Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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BACKGROUND

Vascular endothelial (VE)-cadherin (VE-CAD), also called 7B4 and cadherin-5 (CDH5), is a member of the cadherin family of cell adhesion molecules. Cadherins are calcium-dependent transmembrane proteins which bind to one another in a homophilic manner. On their cytoplasmic side, they associate with the three catenins, α, β, and γ (plakoglobin). This association links the cadherin protein to the cytoskeleton. Without association with the catenins, the cadherins are non-adhesive. Cadherins play a role in development, specifically in tissue formation. They may also help to maintain tissue architecture in the adult. VE-cadherin has been shown to play important roles in vasculogenesis and angiogenesis. VE-cadherin is a classical cadherin molecule. Classical cadherins consist of a large extracellular domain which contains DXD and DXNDN repeats responsible for mediating calcium-dependent adhesion, a single-pass transmembrane domain, and a short carboxy-terminal cytoplasmic domain responsible for interacting with the catenins. Human VE-cadherin is a 784 amino acid (aa) residue protein with a 25 aa signal sequence and a 759 aa propeptide. The mature protein begins at amino acid 48 and has a 546 aa extracellular domain, a 27 aa transmembrane domain, and a 164 aa cytoplasmic domain. The human and mouse mature VE-cadherin proteins share approximately 74% homology.

References:

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- 5. Nose, A. et al. (1987) EMBO J. 6:3655.
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