## For Research Use Only

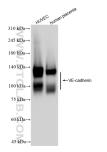
## VE-cadherin/CD144 Recombinant antibody, PBS Only (Capture) Catalog Number:83766-2-PBS

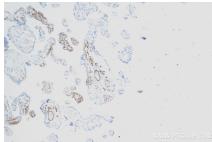


Basic Information	Catalog Number: 83766-2-PBS	GenBank Accession Number: NM_001795.5	Purification Method: Protein A purification
	Size: 1 mg/ml	GeneID (NCBI): 1003	CloneNo.: 240755D8
	Source: Rabbit	UNIPROT ID: P33151-1	
	Isotype: IgG	Full Name: cadherin 5, type 2 (vascular endothelium)	
		Calculated MW: 88 kDa	
		Observed MW: 130 kDa, 100 kDa	
Applications	Tested Applications: WB, IHC, IF/ICC, Cytometric bead array, Indirect ELISA		
	Species Specificity: human		
Background Information	Cadherins are a family of transmembrane glycoproteins that mediate calcium-dependent cell-cell adhesion and play an important role in the maintenance of normal tissue architecture. Vascular endothelial cadherin (VE-cadherin), also known as Cadherin-5 (CDH5) or CD144, is a member of the type II classical cadherin family of cell adhesion proteins (PMID: 21269602). VE-cadherin is expressed specifically in endothelial cells and mediates homophilic adhesion in the vascular endothelial (PMID: 1522121; 8555485; 21269602). VE-cadherin plays a role in the organization of lateral endothelial junctions and in the control of permeability properties of vascular endothelium (PMID: 1522121). VE-cadherin has also been shown to be required for angiogenesis (PMID: 16473763; 18162609). The calculated molecular weight of VE-cadherin is 88 kDa and the apparent molecular weight of 120-140 kDa is higher due to post-translational glycosylation and phosphorylation (PMID: 10460833; 29894844). Fullength VE-cadherin can be proteolytically cleaved to generate a fragment of 90-100 kDa (PMID: 9786462; 22064597).		
Storage	Storage: Store at -80°C. The product is shipped with Storage Buffer: PBS Only	ice packs. Upon receipt, store it immediatel	yat-80℃

For technical support and original validation data for this product please contact: T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

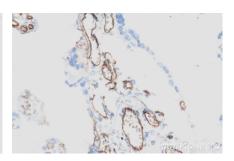
## Selected Validation Data



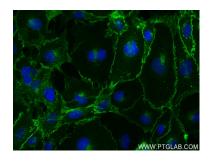


Various lysates were subjected to SDS PAGE followed by western blot with 83766-2-RR (VEcadherin/CD144 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83766-2-PBS in a different storage buffer formulation. Immunohistochemical analysis of paraffinembedded human placenta tissue slide using 83766-2-RR (VE-cadherin antibody) at dilution of 1:300 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83766-2-PBS in a different storage buffer

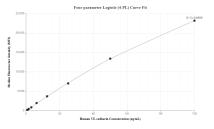
formulation.



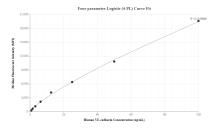
Immunohistochemical analysis of paraffinembedded human placenta tissue slide using 83766-2-RR (VE-cadherin/CD144 antibody) at dilution of 1:300 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83766-2-PBS in a different storage buffer formulation.



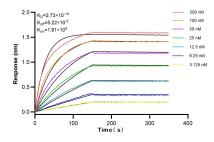
Immunofluorescent analysis of (4% PFA) fixed HUVEC cells using VE-cadherin antibody (83766-2-RR, Clone: 240755D8) at dilution of 1:300 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgC(H+L) (SA00013-2). This data was developed using the same antibody clone with 83766-2-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP00752-1, VE-cadherin/CD144 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83766-2-PBS. Detection antibody: 83766-4-PBS. Standard: Eg1200. Range: 0.78-100 ng/mL



Cytometric bead array standard curve of MP00752-2, VE-cadherin/CD144 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83766-2-PBS. Detection antibody: 83766-3-PBS. Standard: Eg1200. Range: 0.78-100 ng/mL



Biolayer interferometry (BL) kinetic assays of 83766-2-RR against Human VE-cadherin were performed. The affinity constant is 0.273 nM.