For Research Use Only

VWF Recombinant antibody

Catalog Number:83854-2-RR

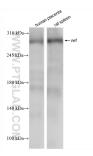


Basic Information	Catalog Number: 83854-2-RR Size: 100ul, Concentration: 1000 ug/ml by Nanodrop; Source: Rabbit Isotype:	GenBank Accession Number: GeneID (NCBI): 7450 UNIPROT ID: P04275 Full Name: von Willebrand factor Observed MW:		Purification Method: Protein A purification CloneNo.: 240867D10 Recommended Dilutions: WB 1:1000-1:4000 IHC 1:500-1:2000 IF-P 1:500-1:2000
	IgG Immunogen Catalog Number: AG25578	309-320 kDa		
Applications	Tested Applications: WB, IHC, IF-P, ELISA Species Specificity: human, rat Note-IHC: suggested antigen ra TE buffer pH 9.0; (*) Alternativ retrieval may be performed w buffer pH 6.0	ely, antigen		placenta tissue, rat spleen tissue tonsillitis tissue, human ovary cancer n placenta tissue
Background Information	Von Willebrand factor (VWF) is a large multimeric glycoprotein found in blood plasma involved in hemostasis following vascular injury. Due to the multimeric nature of VWF, it can range in size from 500 to 20,000 kDa due to the differences in the number of subunits comprising the protein. Each subunit is approximately 250 kDa (PMID: 9759493). The biosynthesis of VWF in vivo is limited to endothelial cells (PMID: 4209883) and megakaryocytes (PMID: 2413071). VWF synthesized in endothelial cells is either released directly into the plasma via 27186a secretory pathway, or tubulized and stored in organelles unique to this cell type called Weibel-Palade bodies (PMID: 16459301). Whereas VWF synthesized in megakaryocytes is stored in the alpha granules of platelets (PMID: 2046403). The primary function of VWF is as an adhesive plasma glycoprotein, particularly factor VIII; an essential blood-clotting protein (PMID: 6982084). VWF is also important in platelet adhesion to wound sites by binding specifically to type I and type III collagen (PMID: 11098050), with larger VWF multimers being most effective (PMID: 2448155).			
Storage	Storage: Store at -20°C. Stable for one year aft Storage Buffer: PBS with 0.02% sodium azide and 50 Aliquoting is unnecessary for -20°C s	° % glycerol pH 7.3.		

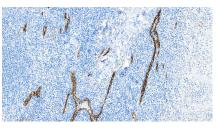
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll freeE: proteintech@ptglab.comin USA), or 1(312) 455-8498 (outside USA)W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



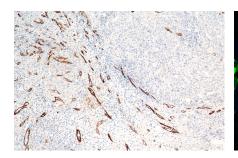
Various lysates were subjected to SDS PAGE followed by western blot with 83854-2-RR (vwf antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



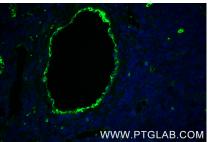
Immunohistochemical analysis of paraffinembedded human tonsillitis tissue slide using 83854-2-RR (VWF antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



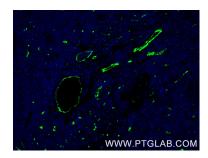
Immunohistochemical analysis of paraffinembedded human ovary cancer tissue slide using 83854-2-RR (VWF antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



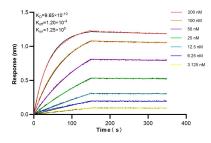
Immunohistochemical analysis of paraffinembedded human ovary cancer tissue slide using 83854-2-RR (VWF antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human tonsillitis tissue using VWF antibody (83854-2-RR, Clone: 240867D10) at dilution of 1:1000 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human tonsillitis tissue using VWF antibody (83854-2-RR, Clone: 240867D10) at dilution of 1:1000 and Coralite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLL) kinetic assays of 83854-2-RR against Human VWF were performed. The affinity constant is 0.965 nM.