

CoraLite® Plus 488-conjugated VWF Recombinant monoclonal antibody

Catalog Number: CL488-83854-2

Basic Information

Catalog Number:	GenBank Accession Number:	Purification Method:
CL488-83854-2	GenID (NCBI):	Protein A purification
Size:	7450	CloneNo.:
100ul , Concentration: 1000 ug/ml by Nanodrop;	UNIPROT ID: P04275	240867D10
Source:	Full Name:	Recommended Dilutions:
Rabbit	von Willebrand factor	IF-P: 1:50-1:500
Isotype:	Observed MW:	Excitation/Emission maxima wavelengths:
IgG	309-320 kDa	493 nm / 522 nm
Immunogen Catalog Number:		
AG25578		

Applications

Tested Applications:	Positive Controls:
IF-P	IF-P: human tonsillitis tissue,
Species Specificity:	
human, rat	

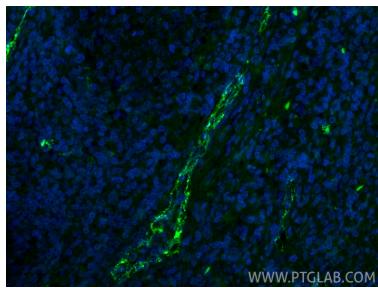
Background Information

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: 24448155).

Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3
Aliquoting is unnecessary for -20°C storage

Selected Validation Data



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Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human tonsillitis tissue using Coralite® Plus 488 VWF antibody (CL488-83854-2, Clone: 240867D10) at dilution of 1:200. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).