For Research Use Only

VWF Polyclonal antibody

Catalog Number:27186-1-AP 24 Publications

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Basic Information

Catalog Number:
27186-1-AP

Size:
150ul , Concentration: 600 μg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG25578

GenBank Accession Number:

GeneID (NCBI):
7450

Full Name:
von Willebrand factor

Purification Method:
Antigen affinity purification

Recommended Dilutions:
IHC 1:50-1:500
IF 1:50-1:500

Applications

Tested Applications:
IF, IHC, ELISA

Cited Applications:
IF, IHC, WB

Species Specificity:
human, rat, mouse

Cited Species:
human, rat, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

IHC : human tonsillitis tissue, mouse brain tissue, rat brain tissue, human breast cancer tissue

IF : human tonsillitis 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: 24448155).

Notable Publications

Author	Pubmed ID	Journal	Application
Xiaodong Cui	34592781	J Cell Mol Med	IF
Xiaoxiong Song	36183951	J Ethnopharmacol	WB,IF
Wang Chen	36430539	Int J Mol Sci	IHC

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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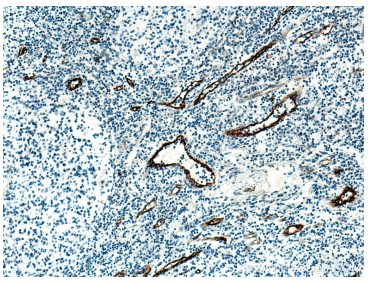
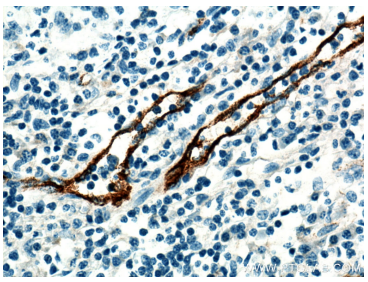
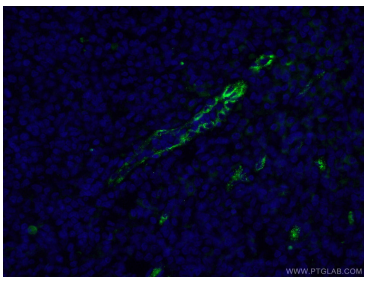
Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 27186-1-AP (VWF antibody) at dilution of 1:200 (under 10x lens). Proteolytic pre-treatment mediated antigen retrieval with .



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 27186-1-AP (VWF antibody) at dilution of 1:200 (under 40x lens). Proteolytic pre-treatment mediated antigen retrieval with .



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using 27186-1-AP (vwf antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).