For Research Use Only

VWF Polyclonal antibody

Catalog Number:34278-1-AP

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Basic Information

Catalog Number:
34278-1-AP

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG41963

GenBank Accession Number:
NM_011708

GeneID (NCBI):
22371

UNIPROT ID:
Q8CIZ8

Full Name:
Von Willebrand factor homolog

Calculated MW:
309 kDa

Observed MW:
220-250 kDa

Purification Method:
Antigen affinity Purification

Recommended Dilutions:
WB: 1:500-1:2000

Applications

Tested Applications:
WB, ELISA

Species Specificity:
mouse, rat

Positive Controls:

WB : mouse plasma, mouse spleen tissue, rat spleen 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).

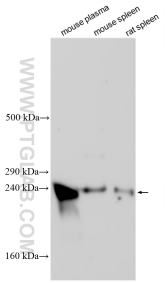
Storage

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

For technical support and original validation data for this product please contact:
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Selected Validation Data



Various lysates were subjected to Tris-Acetate gel system followed by western blot with 34278-1-AP (VWF antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.