Von Willebrand Factor polyclonal antibody

Catalog: BS67414 Host: Rabbit Reactivity: Human, Mouse, Rat

BackGround:

VWF (Von Willebrand factor) is a multimeric plasma glycoprotein that promotes adhesion of platelets to sites of vascular injury . Mature circulating VWF is made up of disulfide-bonded multimers that are in a complex with factor VIII . VWF is stored in secretory Weibel-Palade bodies in endothelial cells . It is synthesized as a large precursor protein and undergoes extensive posttranslational modifications including dimerization in the endoplasmic reticulum followed by cleavage of the pro-peptide and multimerization in the Golgi apparatus . VWF is important in hemostasis, and genetic defects in the structure and modification of VWF can cause von Willebrand disease (VWD), the most common congenital bleeding disorder in humans . Alternatively, increased levels of VWF have been shown to be involved in acute coronary thrombosis and are a clinical risk marker for atherosclerosis . VWF has also been shown to have a role in inflammation, functioning as an adhesive site for a variety of leukocyte subsets . Through siRNA experiments and the use VWF-deficient mice, it has also been shown that VWF regulates angiogenesis.

Product:

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~ 200 kDa

Swiss-Prot:

P04275

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000), IHC (1/50 - 1/200)

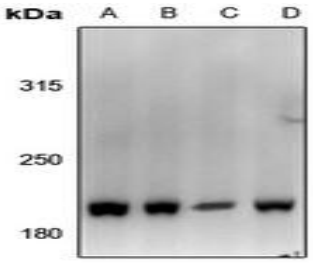
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

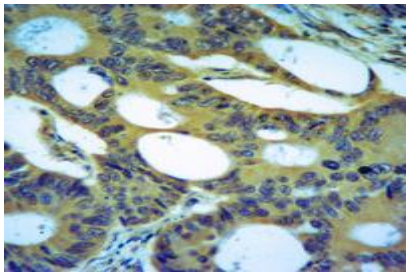
Specificity:

Recognizes endogenous levels of Von Willebrand Factor protein.

DATA:



Western blot analysis of Von Willebrand Factor expression in mouse brain (A), rat brain (B), LOVO (C), HCT116 (D) whole cell lysates.



Immunohistochemical analysis of Von Willebrand Factor staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Note:

For research use only, not for use in diagnostic procedure.

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