

## Goat anti-human von Willebrand Factor Peroxidase Conjugated IgG 0.15 mg

**Product #:** GAVWF-HRP-ASR  
**Lot #:** XXXX  
**Expiry date:** XXXX  
**DOM:** XXXX  
Store at -10 to -20°C.

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### Analyte Specific Reagent.

Analytical and performance characteristics are not established.

### Description of von Willebrand Factor

von Willebrand Factor (vWF, also previously referred to as Factor VIII related antigen) is a large adhesive protein produced in endothelial cells and megakaryocytes. There are two critical functions of vWF, the first being its involvement in the process of platelet adhesion and aggregation through interaction with platelet receptor glycoprotein Ib, the second being the binding and stabilization of Factor VIII (antihemophilic factor) for secretion and transport in plasma. The vWF precursor protein is synthesized with a 95,000 dalton propeptide (also known as vWF antigen-II), believed to be involved in the intracellular multimerization of the vWF subunits. The mature vWF multimers are then packed into storage organelles within the cell (Weibel-Palade bodies) after which the propeptide is cleaved and released. vWF circulates as multimers of disulphide linked 220,000 dalton subunits and the molecular weight of these multimers ranges from 0.5-20 million daltons.

The plasma concentration of vWF is typically 10 µg/ml, but increased levels are often observed in pregnancy and other conditions of physiological stress. von Willebrand's disease (vWD) is perhaps the most common inherited bleeding disorder in humans and is the result of either quantitative deficiencies of vWF (vWD Types I & III), or one of a number of qualitative disorders of vWF structure and function (vWD Type II).

### REVIEW ARTICLES

1. Montgomery RR, Collier BS, in **Hemostasis and Thrombosis**, 3<sup>rd</sup> Edition, eds. RW Colman, J Hirsh, VJ Marder and EW Salzman, pp. 134-168, J.B. Lippincott Co., Philadelphia PA, USA, 1994.

2. Sadler JE; von Willebrand Factor (Minireview); JBC 266:34, pp 22777-22780, 1991.

### Product Specifications

#### Description:

Vial containing XXXX ml of IgG conjugated to horseradish peroxidase (HRP) through carbohydrate groups. Total protein is 0.15 mg.

#### Format:

IgG-HRP conjugate as a clear, slightly red-brown liquid.

#### Host Animal:

Goat

#### Immunogen:

Human vWF purified from plasma.

#### Concentration:

IgG-HRP concentration is XXXX mg/ml, determined by absorbance using an extinction coefficient ( $E_{1\%}^{1\text{cm}}$ ) of 14.

#### Buffer:

A buffered stabilizer solution containing 50% (v/v) glycerol.

#### Storage:

Store between -10 and -20°C. Product will become viscous but will not freeze. Avoid storage in frost-free freezers. Keep vial tightly capped. Allow product to warm to room temperature and gently mix before use. Avoid exposure to sodium azide as this is an inhibitor of peroxidase activity.

#### Specificity:

Prior to conjugation, this antibody was specific for vWF as demonstrated by immunoelectrophoresis and ELISA.

#### Rz Ratio (Reinheitzzahl, A<sub>403</sub>/A<sub>280</sub>):

XXXX as determined spectrophotometrically.

#### Precautions:

Unused solution should be disposed of according to current local, State and Federal Regulations. For a Material Safety Data Sheet for this product contact Affinity Biologicals Inc.

Visit our site ([www.affinitybiologicals.com](http://www.affinitybiologicals.com)) for other related products.

**Limited Warranty:** This product is warranted to perform in accordance with its labeling and literature. Affinity Biologicals Inc. disclaims any implied warranty of merchantability or fitness for any other purposes, and in no event will Affinity Biologicals Inc. be liable for any consequential damages arising out of aforesaid express warranty.

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