**REPRESENTATIVE DATASHEET**

Sheep anti-human Factor VIII
Affinity-Purified IgG
0.5 mg

Product #: SAF8C-AP
Lot #: XXXX
Expiry date: XXXX

Store at –10 to -20°C

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**Description of Factor VIII (FVIII)**

Factor VIII (formerly referred to as antihemophilic globulin and Factor VIII:C) is a large glycoprotein (320 kDa) that circulates in plasma at approximately 200 ng/ml. Synthesized in the liver, the majority of Factor VIII is cleaved during expression, resulting in a heterogeneous mixture of partially cleaved forms of FVIII ranging in size from 200-280 kDa. The FVIII is stabilized by association with von Willebrand Factor to form a FVIII-vWF complex required for the normal survival of FVIII in vivo (t1/2 of 8-12 hours).

FVIII is a pro-cofactor that is activated through limited proteolysis by thrombin. In this process FVIIla dissociates from vWF to combine with activated Factor IX, calcium and a phospholipid surface where it is an essential cofactor in the assembly of the Factor X activator complex. Once dissociated from vWF, FVIIla is susceptible to inactivation by activated Protein C and by non-enzymatic decay.

Hemophilia A is a congenital bleeding disorder resulting from an X-chromosome-linked deficiency of FVIII. The severity of the deficiency generally correlates with the severity of the disease. Some Hemophiliacs (~10%) produce a FVIII protein that is partially or totally inactive. The production of neutralizing antibodies to FVIII also occurs in 5-20% of Hemophiliacs 1-3.

**REFERENCES and REVIEWS**


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**Product Specifications**

**Description:**
Vial containing XXXX ml of IgG purified by affinity-chromatography on immobilized FVIII. Total protein is 0.5 mg.

**Format:**
Affinity-Purified IgG, clear liquid.

**Host Animal:**
Sheep

**Immunogen:**
Human FVIII (FVIII:C) purified from concentrate.

**Concentration:**
APIgG concentration is XXXX mg/ml, determined by absorbance using an extinction coefficient (E1%280) of 13.4.

**Buffer:**
10 mM HEPES, pH 7.4, 150 mM NaCl, 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.

**Specificity:**
This antibody is specific for FVIII as demonstrated by immunoelectrophoresis and ELISA. When titrated on vWF-coated plates, SAF8C-AP does not demonstrate any reactivity above the non-immune sheep negative control.

**Applications:**
Suitable as a source of antibodies to Factor VIII.

**Neutralizing activity:**
XXXX Bethesda Units/ml IgG against normal plasma (Kasper CK et al, Thromb Diath Haemorrh 34:869, 1975). One Bethesda unit/ml is defined as the amount of inhibitor that resulted in 50% residual FVIII activity after 2 hours at 37°C.
Species Cross Reactivity:
Not determined.

Related Products:
Cat #: SAFBC-IG Sheep anti-human Factor VIII, whole IgG from serum
Cat #: SAFBC-HRP Sheep anti-human Factor VIII, whole IgG-peroxidase
Cat #: F8C-EIA Paired antibodies for Factor VIII ELISA, 4 x 96 wells
Cat #: FVIII-DP Human plasma deficient in Factor VIII, immune depleted

Visit our site (www.affinitybiologicals.com) for details.

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