



Sheep Anti-Human Fibrinogen (Fg) Whole IgG from antiserum (10 mg)

Catalogue No: **SAFG-IG**

Lot No: **SAMPLE**

Expiry date: ****/****

Store at **-10 to -20°C**.

For Research Use Only ~ Not for use in diagnostic procedures.

Description of Fibrinogen (Fg)

Fibrinogen is an abundant plasma protein (5-10 μ m) produced in the liver. The intact protein has a molecular weight of 340 kDa and is composed of 3 pairs of disulphide-bound polypeptide chains named α , β and γ . Fibrinogen is a triglobular protein consisting of a central E domain and terminal D domains. Proteolysis by thrombin results in release of Fibrinopeptide A (FPA, α 1-16) followed by Fibrinopeptide B (FPB, β 1-14) and the fibrin monomers that result polymerize in half-overlap fashion to form insoluble fibrin fibrils. The chains of fibrin are referred to as α , β , and γ , due to the removal of FPA and FPB. The polymerised fibrin is subsequently stabilized by the transglutaminase activated Factor XIII that forms amide linkages between γ chains and, to a lesser extent, α chains of the fibrin molecules. Proteolysis of fibrinogen by plasmin initially liberates C-terminal residues from the α chain to produce fragment X (intact D-E-D, which is still clottable). Fragment X is further degraded to non-clottable fragments Y (D-E) and D. Fragment Y can be digested into its constituent D and E fragments. Digestion of non-crosslinked fibrin with plasmin is very similar to the digestion of fibrinogen, which results in production of fragments D and E. Degradation of crosslinked fibrin by plasmin results in fragment DD (D-Dimer consisting of the D domains of 2 fibrin molecules crosslinked via the γ chains), fragment E (central E domain) as well as DDE in which fragment E is non-covalently associated with DD. For human crosslinked fibrin, the relative weights of the cleavage fragments produced are: 184 kDa for fragment DD, 92 kDa for D, 50 kDa for E, 1.54 kDa for FPA and 1.57 kDa for FPB¹⁻³.

References and Reviews

1. Hantgan RR, Francis CW, Marder VJ; Fibrinogen Structure and Physiology; in Hemostasis and Thrombosis, 3rd Edition, eds. RW Colman, J Hirsh, VJ Marder and EW Salzman, pp 277-300, J.B. Lippencott Co., Philadelphia PA, USA, 1994.
2. Shafer JA, Higgins DL; Human Fibrinogen; CRC Critical

Reviews in Clinical Laboratory Sciences, pp 1-41, 1988.

3. Binnie CG, Lord ST; The Fibrinogen Sequences that Interact with Thrombin; Blood 81, pp 3186-3192, 1993.

Product Specifications

Description:

Vial containing 1.000 ml of whole IgG representing approximately 1 mL of antiserum. Total protein is 10 mg.

Format:

Whole IgG, clear liquid.

Host Animal:

Sheep

Immunogen:

Human Fibrinogen purified from plasma.

Concentration:

IgG concentration is 10 mg/ml, determined by absorbance using an extinction coefficient ($E_{280}^{1\%}$) 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 was specific for fibrinogen as demonstrated by immunoelectrophoresis and ELISA.

Applications:

Suitable as a source of antibodies to Human Fibrinogen

Neutralizing activity:

Not determined.

Related Products

SAFG-HRP	Sheep anti-human Fibrinogen, per labelled IgG
SAFG-AP	Sheep anti-human Fibrinogen, affinity pur IgG
SAFG-APHRP	Sheep anti-human Fibrinogen, per lab APIgG
FG-EIA	Paired antibody set for Fibrinogen, 5 x 96 wells
SARFG-IG	Sheep anti-rabbit Fibrinogen, whole IgG from antiserum
SARFG-AP	Sheep anti-rabbit Fibrinogen, affinity pur IgG
SARFG-HRP	Sheep anti-rabbit Fibrinogen, per labelled IgG
RBFGEIA	Paired antibody set of Rabbit Fg, 4 x 96 wells
SAFNE-IG	Sheep anti-Fibrin Fragment E, whole IgG from antiserum
SAFNE-HRP	Sheep anti-Fibrin Fragment E, per labelled IgG
SAFPA-IG	Sheep anti-Fibrinopeptide A, whole IgG from antiserum
SAFPA-AP	Sheep anti-Fibrinopeptide A, affinity pur IgG
SAFPA-HRP	Sheep anti-Fibrinopeptide A, per labelled IgG

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