

Sheep anti-Rabbit Fibrinogen (Fg)

Affinity-Purified IgG

0.5 mg

Product #: SARFG-AP

Lot #: XXXX

Expiry date: XXXX

Store at -10 to -20°C

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For Research Use Only.

Not for use in diagnostic procedures.

Description of Fibrinogen (Fg)

Fibrinogen is an abundant plasma protein (5-10 µM) 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 A α , B 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, A α 1-16) followed by Fibrinopeptide B (FPB, B β 1-14) and the fibrin monomers that result polymerize in a 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 A 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 FP A and 1.57 kDa for FPB¹⁻³.

REFERENCES and REVIEWS

- 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. Lippincott Co., Philadelphia PA, USA, 1994.
- Shafer JA, Higgins DL; Human Fibrinogen; CRC Critical Reviews in Clinical Laboratory Sciences 26, pp 1-41, 1988.
- Binnie CG, Lord ST; The Fibrinogen Sequences that Interact with Thrombin; Blood 81, pp 3186-3192, 1993.

Product Specifications

Description:

Vial containing XXXX ml of IgG purified by affinity-chromatography on immobilized Fg. Total protein is 0.5 mg.

Format:

Affinity-purified IgG (APIgG), clear liquid.

Host Animal:

Sheep

Immunogen:

Rabbit fibrinogen purified from plasma.

Concentration:

IgG concentration is XXXX 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 is specific for rabbit Fg as demonstrated by immunoelectrophoresis and ELISA.

Applications:

Suitable as a source of enriched antibodies to rabbit Fg.

Neutralizing activity:

Not determined.

Species Cross Reactivity: (immunodiffusion vs. citrated plasma)

Human:	XXXX	Mouse:	XXXX	Rat:	XXXX
Rabbit:	XXXX	Pig:	XXXX	Dog:	XXXX

Related Products:

- Cat #: **SARFG-IG** Sheep anti-rabbit Fibrinogen, whole IgG from antiserum
- Cat #: **SARFG-HRP** Sheep anti-rabbit Fibrinogen, peroxidase labelled IgG
- Cat #: **RBFGE-EIA** Paired antibody set for ELISA of Rabbit Fg, 4 x 96 wells
- Cat #: **SAFG-IG** Sheep anti-human Fibrinogen, whole IgG from antiserum
- Cat #: **SAFG-AP** Sheep anti-human Fibrinogen, affinity purified IgG
- Cat #: **SAFG-HRP** Sheep anti-human Fibrinogen, peroxidase labelled IgG
- Cat #: **SAFG-APHRP** Sheep anti-human Fibrinogen, peroxidase labelled APIgG
- Cat #: **FG-EIA** Paired antibody set for ELISA of human Fg, 5 x 96 wells
- Cat #: **SAFNE-IG** Sheep anti-Fibrin Fragment E, whole IgG from antiserum
- Cat #: **SAFNE-HRP** Sheep anti-Fibrin Fragment E, peroxidase labelled IgG
- Cat #: **SAFPA-IG** Sheep anti-Fibrinopeptide A, whole IgG from antiserum
- Cat #: **SAFPA-AP** Sheep anti-Fibrinopeptide A, affinity purified IgG
- Cat #: **SAFPA-HRP** Sheep anti-Fibrinopeptide A, peroxidase labelled IgG

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

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