

Sheep anti-Rabbit Fibrinogen (Fg)

Peroxidase Conjugated IgG

0.2 mg

Product #: SARFG-HRP**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 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. Lippincott Co., Philadelphia PA, USA, 1994.
2. Shafer JA, Higgins DL; Human Fibrinogen; CRC Critical Reviews in Clinical Laboratory Sciences 26, 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 XXXX ml of whole IgG conjugated to horseradish peroxidase (HRP) through carbohydrate groups. Total protein is 0.2 mg.

Format:

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

Host Animal:

Sheep

Immunogen:

Rabbit fibrinogen purified from plasma.

Concentration:

IgG-HRP concentration is XXXX mg/ml, determined by absorbance using an extinction coefficient ($E_{280}^{1\%}$) 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 rabbit Fg as demonstrated by immunoelectrophoresis and ELISA.

Applications:

Suitable as a source of peroxidase labelled antibodies to rabbit fibrinogen.

Rz Ratio (Reinheitzzahl, A_{403}/A_{280}):

XXXX as determined spectrophotometrically.

Related Products:

Cat #:	SARFG-IG	Sheep anti-rabbit Fibrinogen, whole IgG from antiserum
Cat #:	SARFG-AP	Sheep anti-rabbit Fibrinogen, affinity purified IgG
Cat #:	RBFGE-RIA	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 APiG
Cat #:	FG-EIA	Paired antibody set for ELISA of Fibrinogen, 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

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