Fibrinogen (FGA) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Fibrinogen (FGA), Polyclonal Antibody
Full Product Name	Bovine Fibrinogen Antibody HRP Conjugated
Product Gene Name	anti-FGA antibody
Product Synonym Names	FGA; FGA protein; FGB; FGG; Fib2; Fibrin alpha chain ; Fibrinogen A alpha polypeptide; Fibrinogen A alpha polypeptide chain; Fibrinogen alpha chain; Fibrinogen B alpha polypeptide; Fibrinogen beta chain; Fibrinogen G alpha polypeptide; Fibrinogen gamma chain; MGC104327; MGC119422; MGC119423; MGC11942; Bovine Fibrinogen
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Cow
Form/Format	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Purity/Purification	Purified by Protein A
Concentration	1mg/ml (lot specific)
Preparation and Storage	Store at -20°C for one year. Avoid repeated freeze/thaw cycles
Chromosome Location	Chromosome: 17; AC_000174.1 (2842936..2849696). Location: chromosome: 17
3D Structure	ModBase 3D Structure for P02672
Conjugation	HRP
Immunogen	Fibrinogen from bovine plasma
Target Name	Bovine Fibrinogen
Product Categories/Family for anti-FGA antibody	Conjugated Primary Antibodies
Applications Tested/Suitable for anti-FGA antibody	Immunohistochemistry-Paraffin (IHC-P), Immunohistochemistry-Frozen (IHC-F)
Application Notes for anti-FGA antibody	IHC: 1:50-200 IHC-F: 1:50-200
Related Product Information for anti-FGA antibody	Fibrinogen is the main protein of blood coagulation system. It is a large protein and it consists of two identical subunits that contain three polypeptide chains: alpha, beta and gamma. All chains are connected with each other by a number of disulfide bonds. Fibrinopeptides A (1 to 16 amino acids) and B (1 to 17 amino acids) are released by thrombin from the N terminal parts of alpha and beta chains, respectively. In this way fibrinogen is converted into fibrin, which by means of polymerization forms a fibrin clot. Fibrinogen clotting underlies pathogenesis of MI, thromboembolism and thromboses of arteries and veins, since fibrin is the main substrate for thrombus formation. Fibrinogen activation is also involved in pathogenesis of inflammation, tumor growth and many other diseases. The normal fibrinogen concentration in plasma is about 3 mg ml. The elevated level of fibrinogen in patient's blood is regarded as an independent risk factor for cardiovascular diseases. An increase in blood fibrinogen concentration was shown to be a strong predictor of coronary heart disease (Sonel A. et al, and Rapold H.J. et al). All these facts make fibrinogen an important parameter in the identification of cardiovascular diseases.

Other Notes	Small volumes of anti-FGA antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for FGA purchase	MBS9460227 is an antibody targeting FGA. Also known as Bovine Fibrinogen Antibody HRP Conjugated. Reactive in Cow. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FGA. It may not necessarily be applicable to this product.

NCBI GI #	75812954
NCBI GeneID	522039
NCBI Accession #	NP_001028798.1
UniProt Primary Accession #	P02672
UniProt Secondary Accession #	O97642; Q3T049
UniProt Related Accession #	P02672
GenBank Nucleotide #	NM_001033626.1
NCBI Official Full Name	fibrinogen alpha chain
NCBI Official Synonym Full Names	fibrinogen alpha chain
NCBI Official Symbol	FGA
UniProt Protein Name	Fibrinogen alpha chain
Protein Family	Fibrinogen
UniProt Gene Name	FGA
UniProt Entry Name	FIBA_BOVIN
NCBI Protein Information	fibrinogen alpha chain; fibrinogen A-alpha chain; fibrinogen, alpha polypeptide
UniProt Comments for FGA	Function: Fibrinogen has a double function: yielding monomers that polymerize into fibrin and acting as a cofactor in platelet aggregation. Subunit structure: Heterohexamer; disulfide linked. Contains 2 sets of 3 non-identical chains (alpha, beta and gamma). The 2 heterotrimers are in head to head conformation with the N-termini in a small central domain. Subcellular location: Secreted. Domain: A long coiled coil structure formed by 3 polypeptide chains connects the central nodule to the C-terminal domains (distal nodules). The long C-terminal ends of the alpha chains fold back, contributing a fourth strand to the coiled coil structure. Post-translational modification: Conversion of fibrinogen to fibrin is triggered by thrombin, which cleaves fibrinopeptides A and B from alpha and beta chains, and thus exposes the N-terminal polymerization sites responsible for the formation of the soft clot. The soft clot is converted into the hard clot by factor XIIIA which catalyzes the epsilon-(gamma-glutamyl)lysine cross-linking between gamma chains (stronger) and between alpha chains (weaker) of different monomers.Forms F13A-mediated cross-links between a glutamine and the epsilon-amino group of a lysine residue, forming fibronectin-fibrinogen heteropolymers.
Research Articles on FGA	**1.** Full-length bovine alphaC-domain, bAalpha374-568, and its human counterpart, hAalpha392-610, can form ordered oligomers in a similar manner.
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