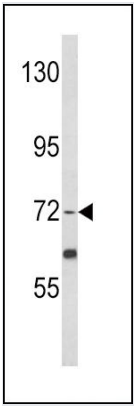
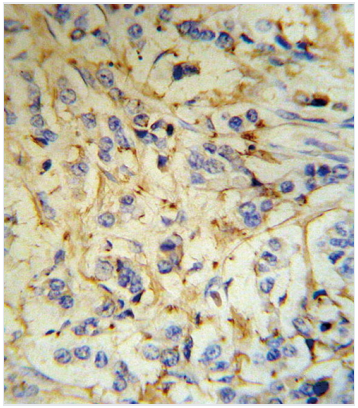
FGA Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

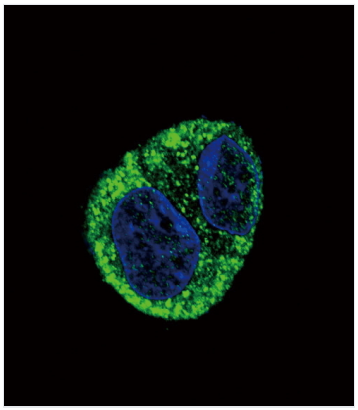
Product Name	FGA, Polyclonal Antibody
Full Product Name	FGA, NT (Fibrinogen alpha Chain, Fibrinopeptide A) (Biotin)
Product Gene Name	anti-FGA antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human FGA.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	94.97369757
OMIM	105200
3D Structure	ModBase 3D Structure for P02671
Immunogen	Synthetic peptide corresponding to a portion of amino acids within aa123-152 from the N-terminal region of human FGA (P02671), conjugated to KLH.
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-FGA antibody	Antibodies; Fibrinogen
Applications Tested/Suitable for anti-FGA antibody	Immunofluorescence (IF), ELISA (EIA), Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-FGA antibody	IF: 1:10-1:50 ELISA: 1:1000 IHC: 1:50-1:100 WB: 1:50-1:100 Applications are based on unconjugated antibody.
Related Product Information for anti-FGA antibody	MBS6476136 is an antibody targeting FGA. Also known as FGA, NT (Fibrinogen alpha Chain, Fibrinopeptide A) (Biotin). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-FGA antibody	1. Thomas, V.A., et.al., Biochemistry 37(8), 2291-2298 (1998).
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.



Western Blot (WB) of anti-FGA antibody
Western blot analysis of FGA Antibody (N-term) in Jurkat cell line lysates (35ug/lane). FGA (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-FGA antibody
FGA Antibody (N-term) (RB18707) IHC analysis in formalin fixed and paraffin embedded human breast carcinoma tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the FGA Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



Immunofluorescence (IF) of anti-FGA antibody
Confocal immunofluorescent analysis of FGA Antibody (N-term) with HepG2 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).

ADDITIONAL DETAILS

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

NCBI GI #	4503689
NCBI GeneID	2243
NCBI Accession #	NP_000499
UniProt Primary Accession #	P02671
UniProt Related Accession #	P02671
GenBank Nucleotide #	NP_000499.1
NCBI Official Full Name	fibrinogen alpha chain isoform alpha-E preproprotein
NCBI Official Synonym Full Names	fibrinogen alpha chain
NCBI Official Symbol	FGA
NCBI Official Synonym Symbols	Fib2
UniProt Protein Name	Fibrinogen alpha chain
Protein Family	Fibrinogen
UniProt Gene Name	FGA

UniProt Entry Name	FIBA_HUMAN
NCBI Protein Information	fibrinogen alpha chain
NCBI Summary for FGA	This gene encodes the alpha subunit of the coagulation factor fibrinogen, which is a component of the blood clot. Following vascular injury, the encoded preproprotein is proteolytically processed by thrombin during the conversion of fibrinogen to fibrin. Mutations in this gene lead to several disorders, including dysfibrinogenemia, hypofibrinogenemia, afibrinogenemia and renal amyloidosis. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that undergoes proteolytic processing. [provided by RefSeq, Jan 2016]
UniProt Comments for FGA	FGA: Fibrinogen has a double function: yielding monomers that polymerize into fibrin and acting as a cofactor in platelet aggregation. Defects in FGA are a cause of congenital afibrinogenemia (CAFBN). This is a rare autosomal recessive disorder characterized by bleeding that varies from mild to severe and by complete absence or extremely low levels of plasma and platelet fibrinogen. The majority of cases of afibrinogenemia are due to truncating mutations. Variations in position Arg-35 (the site of cleavage of fibrinopeptide a by thrombin) leads to alpha-dysfibrinogenemias. Defects in FGA are a cause of amyloidosis type 8 (AMYL8); also known as systemic non-neuropathic amyloidosis or Ostertag-type amyloidosis. AMYL8 is a hereditary generalized amyloidosis due to deposition of apolipoprotein A1, fibrinogen and lysozyme amyloids. Viscera are particularly affected. There is no involvement of the nervous system. Clinical features include renal amyloidosis resulting in nephrotic syndrome, arterial hypertension, hepatosplenomegaly, cholestasis, petechial skin rash. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 4q28 Cellular Component: extracellular space; cell surface; fibrinogen complex; plasma membrane; extracellular region; cell cortex; vesicle; external side of plasma membrane Molecular Function: protein binding, bridging; protein binding; cell adhesion molecule binding; structural molecule activity; receptor binding Biological Process: protein polymerization; platelet activation; extracellular matrix organization and biogenesis; positive regulation of heterotypic cell-cell adhesion; cell-matrix adhesion; signal transduction; platelet degranulation; cellular protein complex assembly; positive regulation of protein secretion; positive regulation of vasoconstriction; innate immune response; blood coagulation; response to calcium ion; positive regulation of exocytosis Disease: Amyloidosis, Familial Visceral; Afibrinogenemia, Congenital; Dysfibrinogenemia, Congenital
Research Articles on FGA	**1.** Fibrinogen and kininogen may be potential serum protein biomarkers in the diagnosis and prognosis of depressive disorders.
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