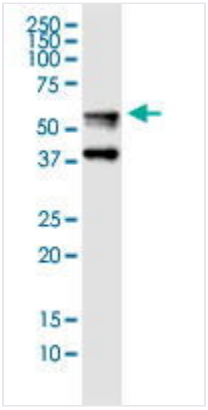
FGB Antibody – Mouse Monoclonal

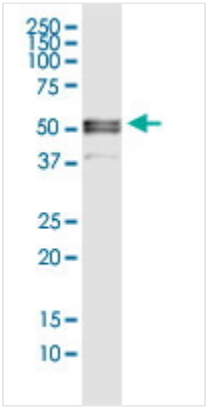
PRODUCT OVERVIEW

Product Name	FGB, Monoclonal Antibody
Full Product Name	FGB (Fibrinogen beta Chain, MGC104327, MGC120405) (HRP)
Product Gene Name	anti-FGB antibody
Product Synonym Names	Fibrinogen beta Chain; MGC104327; MGC120405
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	1D7
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with horseradish peroxidase (HRP).
Purity/Purification	Purified
Specificity	Recognizes FGB.
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 stor 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 r assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, ce original vial after thawing and prior to removing the cap.
Molecular Weight	40kDa (351aa)
OMIM	134830
3D Structure	ModBase 3D Structure for P02675
Immunogen	FGB (NP_005132, 392aa-491aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	GENRTMTIHNGMFFSTYDRDNDGWLTSDPRKQCSKEDGGGWWYNRCHAANPNGRYYWGGQYTWDMAKHGTDDGVVWMNWKGSWYSMRKMSMK
Conjugate	HRP
Product Categories/Family for anti-FGB antibody	Antibodies; Fibrinogen
Applications Tested/Suitable for anti-FGB antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-FGB antibody	Applications are based on unconjugated antibody.

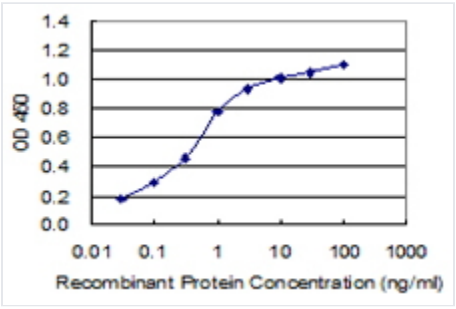
Related Product Information for anti-FGB antibody	MBS6183507 is an antibody targeting FGB. Also known as FGB (Fibrinogen beta Chain, MGC104327, MGC120405) (HRP). Host: Mouse.
Other Notes	Small volumes of anti-FGB antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessar 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 may apply.



Western Blot (WB) of anti-FGB antibody
FGB monoclonal antibody (M01), clone 1D7. Western Blot analysis of FGB expression in HepG2.



Western Blot (WB) of anti-FGB antibody
FGB monoclonal antibody (M01), clone 1D7. Western Blot analysis of FGB expression in PC-12.



Testing Data of anti-FGB antibody
Detection limit for recombinant GST tagged FGB is 0.3 ng/ml as a capture antibody.

ADDITIONAL DETAILS

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

NCBI GI #	70906435
NCBI GeneID	2244
NCBI Accession #	NP_005132
UniProt Primary Accession #	P02675
UniProt Secondary Accession #	Q32Q65; Q3KPF2; A0JLR9; B2R7G3
UniProt Related Accession #	P02675
GenBank Nucleotide #	NM_005141.4
NCBI Official Full Name	fibrinogen beta chain isoform 1 preproprotein
NCBI Official Synonym Full Names	fibrinogen beta chain
NCBI Official Symbol	FGB
NCBI Official Synonym Symbols	HEL-S-78p

UniProt Protein Name	Fibrinogen beta chain
Protein Family	Fibrinogen
UniProt Gene Name	FGB
UniProt Entry Name	FIBB_HUMAN
NCBI Protein Information	fibrinogen beta chain
NCBI Summary for FGB	The protein encoded by this gene is the beta component of fibrinogen, a blood-borne glycoprotein comprised of three pairs of nonidentical polypeptide chains. Following vascular injury, fibrinogen is cleaved by thrombin to form fibrin which is the most abundant component of blood clots. In addition, various cleavage products of fibrinogen and fibrin regulate cell adhesion and spreading, display vasoconstrictor and chemotactic activities, and are mitogens for several cell types. Mutations in this gene lead to several disorders, including afibrinogenemia, dysfibrinogenemia, hypodysfibrinogenemia and thrombotic tendency. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2014]
UniProt Comments for FGB	FGB: Fibrinogen has a double function: yielding monomers that polymerize into fibrin and acting as a cofactor in platelet aggregation. Defects in FGB are a cause of congenital afibrinogenemia (CAFBN). This rare autosomal recessive disorder is characterized by bleeding that varies from mild to severe and by complete absence or extremely low levels of plasma and platelet fibrinogen. Patients with congenital fibrinogen abnormalities can manifest different clinical pictures. Some cases are clinically silent, some show a tendency toward bleeding and some show a predisposition for thrombosis with or without bleeding. Protein type: Secreted; Cell surface; Adaptor/scaffold; Secreted, signal peptide Chromosomal Location of Human Ortholog: 4q28 Cellular Component: extracellular space; cell surface; fibrinogen complex; extracellular region; plasma membrane; cell cortex; vesicle; external side of plasma membrane Molecular Function: protein binding, bridging; protein binding; chaperone 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; response to calcium ion; blood coagulation; positive regulation of exocytosis Disease: Afibrinogenemia, Congenital; Dysfibrinogenemia, Congenital
Research Articles on FGB	**1.** elevated levels of plasma homocysteine /homocysteine thiolactone contribute to AD pathology via the Abeta-fibrin(ogen) interaction
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