

Mouse anti-Human Fibrinogen beta chain/FGB Monoclonal Antibody | anti-FGB antibody

Anti-Fibrinogen beta chain/FGB Antibody (monoclonal, 6D12)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125915	Mouse	Human	Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

Fibrinogen beta chain/FGB; Monoclonal Antibody; Anti-Fibrinogen beta chain/FGB Antibody (monoclonal; 6D12); FGB; Fibrinogen beta chain; Fibrinopeptide B; fibrinogen beta chain; anti-FGB antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG2b
Clone Number	6D12
Specificity	Mouse IgG monoclonal antibody for Fibrinogen beta chain/FGB detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na ₂ HPO ₄ .
Applicable Applications for anti-FGB antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human FGB (193-225aa TNLRVLSILENLRSKIQLKLESDVSAQMEYCRT), different from the related mouse sequence by three amino acids, and from the related rat sequence by five amino acids.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of Fibrinogen beta chain/FGB using anti-Fibrinogen beta chain/FGB antibody (AAA125915).Fibrinogen beta chain/FGB was detected in paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml mouse anti-Fibrinogen beta chain/FGB Antibody (AAA125915) overnight at 4 degree C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of Fibrinogen beta chain/FGB using anti-Fibrinogen beta chain/FGB antibody (AAA125915).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: human HEPG2 whole cell lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with mouse anti- Fibrinogen beta chain/FGB antigen affinity purified monoclonal antibody (Catalog # AAA125915) at 0. 5 μg/mL overnight at 4 degree C, then washed with TBS-0. 1%Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Fibrinogen beta chain/FGB at approximately 56KD. The expected band size for Fibrinogen beta chain/FGB is at 56KD.

ADDITIONAL INFORMATION

Related Product Information for anti-FGB antibody	Fibrinogen beta chain, mapped to 4q31. 3, is also known as 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.
References	1. "Entrez Gene: FGB fibrinogen beta chain". 2. Chung, D. W., Que, B. G., Rixon, M. W., Mace, M., Jr., Davie, E. W. Characterization of complementary deoxyribonucleic acid and genomic deoxyribonucleic acid for the beta chain of human fibrinogen. Biochemistry 22: 3244-3250, 1983. 3. Spena, S., Duga, S., Asselta, R., Malcovati, M., Peyvandi, F., Tenchini, M. L. Congenital afibrinogenemia: first identification of splicing mutations in the fibrinogen B-beta-chain gene causing activation of cryptic splice sites. Blood 100: 4478-4484, 2002.

NCBI AND UNIPROT INFORMATION

NCBI GI #	296080754
NCBI GeneID	2244
NCBI Accession #	NP_001171670.1
NCBI GenBank Nucleotide #	NM_001184741.1
UniProt Accession #	P02675; Q3KPF2; B2R7G3
Molecular Weight	55,928 Da
NCBI Official Full Name	fibrinogen beta chain isoform 2 preproprotein
NCBI Official Synonym Full Names	fibrinogen beta chain
NCBI Official Symbol	FGB
NCBI Protein Information	fibrinogen beta chain; fibrinogen, B beta polypeptide
UniProt Protein Name	Fibrinogen beta chain
UniProt Gene Name	FGB
UniProt Entry Name	FIBB_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/fibrinogen-beta-chain-fgb-antibody-clone-6d12-immunohistochemistry-western-blot-elisa/125915>