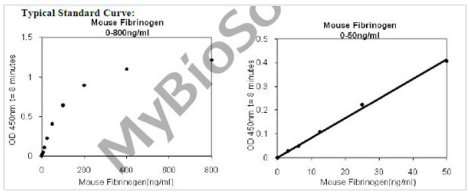
Fibrinogen (FGG) Assay Kit

PRODUCT OVERVIEW

Product Name	Fibrinogen (FGG), Assay Kit
Full Product Name	Mouse Fibrinogen ELISA assay
Product Gene Name	FGG assay kit
Product Synonym Names	Mouse Fibrinogen Antigen Assay
Assay Type	Quantitative Sandwich
Preparation and Storage	1. Store the kit and all of its components at 4 degree C before use. 2. If not using the entire plate at once, prepare only the appropriate amount of Primary Antibody and Standard. The remaining stock solutions should be frozen and stored at At -70 degree C. Do not freeze/thaw more than once. All other components should remain refrigerated. 3. Store unused portions of the microplate in a pouch with a desiccant at 4 degree C.
Molecular Weight	50,244 Da
3D Structure	ModBase 3D Structure for P12799
Related Product Information for FGG assay kit	Principle of the Assay: This is an ELISA (Enzyme-Linked Immunosorbent Assay) for the quantitative analysis of total fibrinogen levels in mouse plasma and serum. This test kit operates on the basis of sandwich ELISA where the fibrinogen binds to a capture antibody on the plate and is quantified with the use of a biotin labeled primary antibody and an avidin-HRP conjugate. Mouse fibrinogen will bind to the affinity purified capture antibody coated on the microtiter plate. After appropriate washing steps, biotin labeled polyclonal anti-mouse fibrinogen primary antibody binds to the captured protein. Excess antibody is washed away and bound polyclonal antibody is reacted with avidin conjugated to horseradish peroxidase. TMB substrate is used for color development at 450 nm. A standard calibration curve is prepared along with the samples to be measured using dilutions of mouse fibrinogen. Color development is proportional to the concentration of fibrinogen in the samples. Background/Introduction: Fibrinogen is a soluble glycoprotein that circulates in the blood and is converted to insoluble fibrin by thrombin in the final step of the coagulation cascade1. Hepatic expression of fibrinogen increases two to four hundred fold during the acute phase response to infection or inflammation2. Elevated fibrinogen levels are correlated with cardiovascular disease3 and atherosclerosis4.
Product References and Citations for FGG assay kit	1. Kamath, S. and Lip, G.Y.H.; (2003) QJM 96:711-729 2. Kusher, I.; (1982) Ann New York Acad Sci 389:39-48 3. Kannel, W.B., et al.; (1987) J Am Med Assoc 258:1183-1186 4. Hanga, K., et al.; (1989) Atherosclerosis 77:209-213 5. Rezaee, F., et al.; (2002) Atherosclerosis 164:37-44
Other Notes	Small volumes of FGG assay kit 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 FGG purchase	MBS480411 is an assay kit targeting FGG. Also known as Mouse Fibrinogen ELISA assay.



Typical Testing Data/Standard Curve (for reference only) of FGG assay kit

ADDITIONAL DETAILS

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

NCBI GI #	350
NCBI GeneID	280792
NCBI Accession #	CAA33562.1
UniProt Primary Accession #	P12799
UniProt Related Accession #	P12799
NCBI Official Full Name	fibrinogen
NCBI Official Symbol	FGG
UniProt Protein Name	Fibrinogen gamma-B chain
Protein Family	Fibrinogen
UniProt Gene Name	FGG
UniProt Synonym Gene Names	Gamma'
UniProt Entry Name	FIBG_BOVIN
NCBI Protein Information	fibrinogen gamma-B chain; fibrinogen, gamma polypeptide; gamma'
UniProt Comments for FGG	Together with fibrinogen alpha (FGA) and fibrinogen beta (FGB), polymerizes to form an insoluble fibrin matrix. Has a major function in hemostasis as one of the primary components of blood clots. In addition, functions during the early stages of wound repair to stabilize the lesion and guide cell migration during re-epithelialization. Was originally thought to be essential for platelet aggregation, based on in vitro studies using anticoagulated blood. However, subsequent studies have shown that it is not absolutely required for thrombus formation in vivo. Enhances expression of SELP in activated platelets via an ITGB3-dependent pathway. Maternal fibrinogen is essential for successful pregnancy. Fibrin deposition is also associated with infection, where it protects against IFNG-mediated hemorrhage. May also facilitate the antibacterial immune response via both innate and T-cell mediated pathways.
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