

Fibrinogen Assay Kit | FGG assay kit

Mouse Fibrinogen ELISA assay

CATALOG #
AAA71807

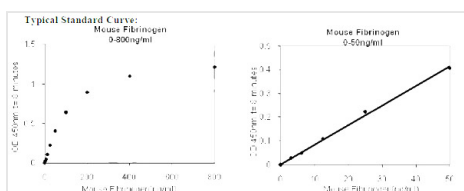
PRODUCT SYNONYMS

Fibrinogen; Mouse Fibrinogen ELISA assay; Mouse Fibrinogen Antigen Assay; FGG assay kit

PRODUCT SPECIFICATIONS

Sequence Length	444
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.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

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.

References

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

NCBI AND UNIPROT INFORMATION

NCBI GI #	350
NCBI GeneID	280792
UniProt Accession #	P12799
Molecular Weight	50,244 Da
NCBI Official Full Name	fibrinogen
NCBI Official Symbol	FGG
NCBI Protein Information	fibrinogen gamma-B chain; fibrinogen, gamma polypeptide; gamma'
UniProt Protein Name	Fibrinogen gamma-B chain
UniProt Gene Name	FGG
UniProt Synonym Gene Names	Gamma'
UniProt Entry Name	FIBG_BOVIN

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://www.aaabiotech.com/assay-kits/fibrinogen/71807>