

Fibrinogen Assay Kit | FGG assay kit

Rat Fibrinogen ELISA assay

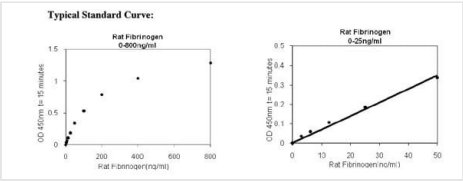
CATALOG #
AAA71808

PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Sequence Length	444
Procedural Notes	1. This assay should be run at room temperature. 2. Use aseptic technique when opening and dispensing reagents. 3. This kit is designed to work properly as provided and instructed. Additions, deletions or substitutions to the procedure or reagents are not recommended, as they may be detrimental to the assay. 4. To minimize error due to handling, wipe the exterior bottom of the microplate wells with a lint-free paper towel.
Reagent Preparation	1. 10x Wash Buffer: Dilute the 50 mL of concentrate to 1x with 450 mL of DI water prior to use. 2. 5x Dilution Buffer: Dilute the 50 mL of concentrate to 1x with 200 mL of DI water prior to use. 3. Primary Antibody: Reconstitute with 1x Dilution Buffer as directed on the vial and vortex gently to mix. Prepare immediately prior to use. 4. Secondary Conjugate: Dilute with 1x Dilution Buffer as directed on the vial and vortex gently to mix. Prepare immediately prior to use.
Standard Preparation	Reconstitute the standard by adding 5.0 mL of dilution buffer directly to the vial and agitate to fully dissolve. This will provide a concentration of 800 ng/mL solution. Prepare the serial dilution as outlined in the table below. Standard Fibrinogen Concentration (ng/mL) Amount of 1x Dilution Buffer (μL) Transfer Volume (μL) Transfer Source Total Volume (μL) S9 800 --- 1000 Stock Vial 500 S8 400 500 500 S9 500 S7 200 500 500 S8 500 S6 100 500 500 S7 500 S5 50 500 500 S6 500 S4 25 500 500 S5 500 S3 12.5 500 500 S4 500 S2 6.25 500 500 S3 500 S1 3.125 500 500 S2 500 S0 0 500 ---- --- 500
Sample Collection, Storage and Preparation	Samples giving rat fibrinogen levels above 800 ng/ml should be diluted in 1X Dilution Buffer before use. Normal plasma samples need to be diluted between 1:10,000 and 1:50,000 in 1X Dilution Buffer for the values to be within the linear range of the standard curve.
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.



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for FGG assay kit	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 cascade 1. Hepatic expression of fibrinogen increases two to four hundred fold during the acute phase response to infection or inflammation 2. Elevated fibrinogen levels are correlated with cardiovascular disease3 and atherosclerosis4. Principle of assay: This is an ELISA (Enzyme-Linked Immunosorbent Assay) for the quantitative analysis of total fibrinogen levels in rat 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. Rat fibrinogen will bind to the affinity purified capture antibody coated on the microtiter plate. After appropriate washing steps, biotin labeled polyclonal anti-rat 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 450nm. A standard calibration curve is prepared along with the samples to be measured using dilutions of rat fibrinogen. Color development is proportional to the concentration of fibrinogen in the samples.
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. Handa, K., et al.; (1989) Atherosclerosis 77:209-213 5. Larrson, A., et al.; (1997) Vet Immunol Immunopathol 59:163-169 6. Dorner, H., et al., (1995) Gerontology 41:252-259

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.