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FGA Antibody (N-term)

Mouse Monoclonal Antibody (Mab)
Catalog # AM2051B

Product Information

Application	WB, E
Primary Accession	P02671
Other Accession	NP_000499.1
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Isotype	IgM
Clone Names	471CT12.1.2
Calculated MW	94973
Antigen Region	420-448

Additional Information

Gene ID	2243
Other Names	Fibrinogen alpha chain, Fibrinopeptide A, Fibrinogen alpha chain, FGA
Target/Specificity	This FGA antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 420-448 amino acids from the N-terminal region of human FGA.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	FGA Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	FGA
Function	Cleaved by the protease thrombin to yield monomers which, together with fibrinogen beta (FGB) and fibrinogen gamma (FGG), polymerize to form an insoluble fibrin matrix. Fibrin 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 immune response via both innate and T-cell mediated pathways.

Cellular Location Secreted

Tissue Location Detected in blood plasma (at protein level).

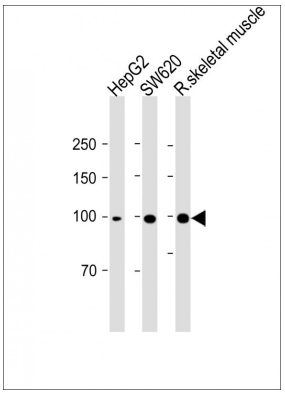
Background

The protein encoded by this gene is the alpha 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 dysfibrinogenemia, hypofibrinogenemia, afibrinogenemia and renal amyloidosis. Alternative splicing results in two isoforms which vary in the carboxy-terminus. [provided by RefSeq].

References

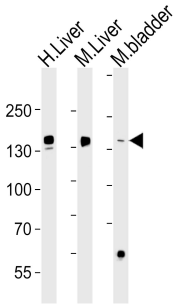
Bahadori, B., et al. Thromb. Res. 126(4):350-352(2010)
Chen, Z., et al. Hum. Genet. 128(4):443-452(2010)
Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Gu, W.P., et al. Zhonghua Yi Xue Yi Chuan Xue Za Zhi 27(3):286-289(2010)
Ban, H.J., et al. BMC Genet. 11, 26 (2010) :

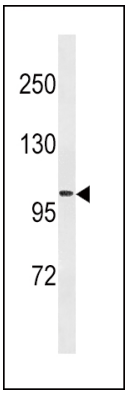
Images



All lanes: Anti-FGA Antibody (N-term) at 1:1000 dilution Lane 1: HepG2 whole cell lysate Lane 2: SW620 whole cell lysate Lane 3: Rat skeletal muscle lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Mouse IgM, (H+L), Peroxidase conjugated (ASP1613) at 1/8000 dilution. Observed band size: 95 KDa Blocking/Dilution buffer: 5% NFDM/TBST.

Western blot analysis of lysates from human Liver, mouse Liver, mouse bladder tissue (from left to right), using FGA Antibody (N-term)(Cat. #AM2051b). AM2051b was diluted at 1:1000 at each lane. A goat anti-mouse IgM H&L(HRP) at 1:3000 dilution was used as the secondary antibody. Lysates at 20µg per lane.





FGA Antibody (N-term) (Cat. #AM2051b) western blot analysis in mouse bladder tissue lysates (35µg/lane).This demonstrates the FGA(N-term) antibody detected the FGA(N-term) protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.