

Anti-Fibrinogen alpha chain Picoband Antibody

Catalog # ABO10114

Product Information

Application	WB
Primary Accession	P02671
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Fibrinogen alpha chain(FGA) detection. Tested with WB in Human;Rat.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	2243
Other Names	Fibrinogen alpha chain, Fibrinopeptide A, Fibrinogen alpha chain, FGA
Calculated MW	94973
Application Details	Western blot, 0.1-0.5 µg/ml, Human, Rat
Subcellular Localization	Secreted .
Tissue Specificity	Detected in blood plasma (at protein level). .
Source	Eukaryota
Protein Name	Fibrinogen alpha chain
Contents	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human FGA (687-727aa RTWQDYKRGFGSLNDEGEFEWLGNLYLHLLTQRGSVLRVE), different from the related mouse and rat sequences by two amino acids.
Purification	Immunogen affinity purified.
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

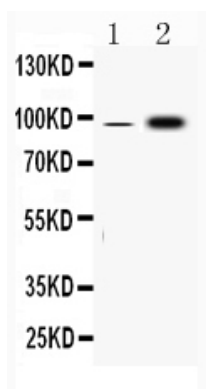
Protein Information

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

Fibrinogen alpha chain is a protein that in humans is encoded by the FGA gene. This gene encodes the alpha subunit of the coagulation factor fibrinogen, which is a component of the blood clot. Following vascular injury, the encoded preproprotein is proteolytically processed by thrombin during the conversion of fibrinogen to fibrin. Mutations in this gene lead to several disorders, including dysfibrinogenemia, hypofibrinogenemia, afibrinogenemia and renal amyloidosis. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that undergoes proteolytic processing.

Images



Western blot analysis of FGA expression in rat skeletal muscle extract (lane 1) and HEPG2 whole cell lysates (lane 2). FGA at 95KD was detected using rabbit anti-FGA Antigen Affinity purified polyclonal antibody (Catalog #ABO10114) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method.

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