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Anti-FGB Picoband Antibody

Catalog # ABO10166

Specification

Anti-FGB Picoband Antibody - Product Information

Application	**WB**
Primary Accession	P02675
Host	**Rabbit**
Reactivity	**Human, Mouse, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Fibrinogen beta chain (FGB) detection. Tested with WB in Human;Mouse;Rat.

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

Anti-FGB Picoband Antibody - Additional Information

Gene ID 2244

Other Names
Fibrinogen beta chain, Fibrinopeptide B, Fibrinogen beta chain, FGB

Calculated MW
55928 MW KDa

Application Details
Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization
Secreted .

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

Protein Name
Fibrinogen beta chain

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence in the middle region of human FGB (193-225aa TNLRVLRSILENLRSKIQKLESDVSAQMEYCRT), different from the related mouse sequence by three amino acids, and from the related rat sequence by five amino acids.

Purification

Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins.

Storage	**At -20˚C for one year. After r˚Constitution, 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.**

Anti-FGB Picoband Antibody - Protein Information

Name FGB

Function
Cleaved by the protease thrombin to yield monomers which, together with fibrinogen alpha (FGA) 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. 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.

Cellular Location
Secreted

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

Anti-FGB Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-FGB Picoband Antibody - Images

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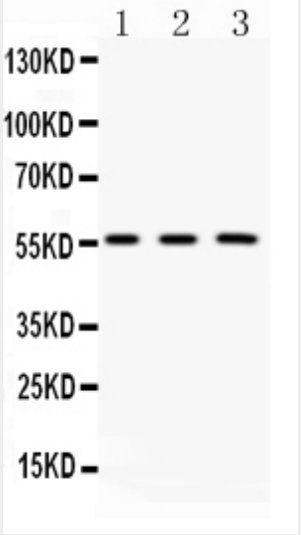

Western blot analysis of FGB expression in rat kidney extract (lane 1), mouse liver extract (lane 2) and HELA whole cell lysates (lane 3). FGB at 56KD was detected using rabbit anti- FGB Antigen Affinity purified polyclonal antibody (Catalog # ABO10166) at 0.5 Î¼g/mL. The blot was developed using chemiluminescence (ECL) method .

Anti-FGB Picoband Antibody - Background

Fibrinogen beta chain, mapped to 4q31.3, is also known as FGB. The protein encoded by this gene is the beta 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 afibrinogenemia, dysfibrinogenemia, hypodysfibrinogenemia and thrombotic tendency. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.