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Product Information

Anti-Human Fibrinogen Protein A scaffold

Cat. No.: **AFB-21LY**
This product is for research use only and is not intended for diagnostic use.

Product Overview

The Anti-Fibrinogen Protein A Scaffold molecule was selected against human fibrinogen. Cross reactivity with other species has not been tested. The Anti-Fibrinogen Protein A Scaffold molecule works very well for purification and depletion of fibrinogen from plasma. The Anti-Fibrinogen Protein A Scaffold molecule is modified with a unique C-terminal cysteine for directed single-point chemical modification, facilitating coupling to matrices.

Antigen Description

Fibrinogen is a globular and fibrous plasma protein of 340 kDa. It is essential for platelet aggregation and platelet plug formation (clotting) at the site of damage. Fibrinogen is a dimeric protein composed of three pairs of non- identical polypeptide chains held together by disulfide bonds. The polypeptide chains that are designated as the alpha, beta and gamma chains are 63, 56 and 47 kDa, respectively. Fibrinogen is synthesized exclusively in the liver by hepatic parenchymal cells and the level in circulation is maintained at 2.5-3.2 mg/ml. It belongs to the family of acute phase proteins and the levels rises up to seven-fold in response to trauma or inflammation. Individuals with hypofibrinogenimia may have a predisposition for bleeding whereas a complete absence of fibrinogen usually is fatal.

Specific Activity

Anti-Fibrinogen Protein A scaffold molecule binds to human fibrinogen. Cross reactivity with other species has not been tested.

Source

Display library

Species Reactivity

human

Expression Host

E. coli

Applications

Affinity Chromatography.

Molecular Weight

14.0 kDa

Storage

At +4°C is recommended for lyophilized protein. For reconstituted protein in physiological buffer, short-term storage at +4°C is recommended. For long-term storage, the protein solution should first be aliquoted and stored frozen at -20°C. There is no dec

ANTIGEN GENE INFOMATION

Gene Name

FGA fibrinogen alphachain [Homo sapiens]

Official Symbol

FGA

Synonyms

Fib2; MGC119422; MGC119423; MGC119425; FGA; fibri- nogen alpha chain; OTTHUMP00000197063; OTTHUMP 00000197064; fibrinogen, A alpha polypeptide

Gene ID

2243

mRNA Refseq

NM_000508

Protein Refseq

NP_000499

MIM

134820

UniProt ID

P02671

Chromosome Location

4q28

Pathway

Blood Clotting Cascade, organism-specific biosystem; Common Pathway, organism-specific biosystem; Comple- ment and coagulation cascades, organism-specific biosys- tem; Formation of Fibrin Clot (Clotting Cascade), organ- ism-specific biosystem; Formation of Platelet plug, organ- ism-specific biosystem; GRB2:SOS provides linkage to MAPK signaling for Intergrins, organism-specific biosys- tem; Hemostasis, organism-specific biosystem; Integrin alphaIIb beta3 signaling, organism-specific biosystem; Integrin cell surface interactions, organism-specific biosys- tem; Platelet Activation, organism-specific biosystem; p130Cas linkage to MAPK signaling for integrins, organism-specific biosystem.

Function

Fibrinogen has a double function: yielding monomers that polymerize into fibrin and acting as a cofactor in platelet aggregation.

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