

Product Name: Cleaved-Factor XIIIa (G39) Rabbit Polyclonal Antibody Catalog #: APRab08992

For research use only.

Summary

Description Rabbit polyclonal Antibody

Host Rabbit
Application WB,ELISA

Reactivity Human,Rat,Mouse
Conjugation Unconjugated
Modification Unmodified

Isotype IgG

ClonalityPolyclonalFormLiquidConcentration1mg/ml

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping Ice bags

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type **Buffer**

preservative N.

Purification Affinity purification

Application

Dilution Ratio WB 1:500-1:2000,ELISA 1:10000-1:20000

Molecular Weight 79kDa

Antigen Information

Alternative Names

Gene Name F13A1

F13A1; F13A; Coagulation factor XIII A chain; Coagulation factor XIIIa; Protein-glutamine

gamma-glutamyltransferase A chain; Transglutaminase A chain

 Gene ID
 2162.0

 SwissProt ID
 P00488

The antiserum was produced against synthesized peptide derived from human FA13A. AA Immunogen

range:20-69

Background

Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838

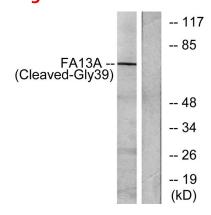


This gene encodes the coagulation factor XIII A subunit. Coagulation factor XIII is the last zymogen to become activated in the blood coagulation cascade. Plasma factor XIII is a heterotetramer composed of 2 A subunits and 2 B subunits. The A subunits have catalytic function, and the B subunits do not have enzymatic activity and may serve as plasma carrier molecules. Platelet factor XIII is comprised only of 2 A subunits, which are identical to those of plasma origin. Upon cleavage of the activation peptide by thrombin and in the presence of calcium ion, the plasma factor XIII dissociates its B subunits and yields the same active enzyme, factor XIIIa, as platelet factor XIII. This enzyme acts as a transglutaminase to catalyze the formation of gammaglutamyl-epsilon-lysine crosslinking between fibrin molecules, thus stabilizing the fibrin clot. It also crosslinks alpha-2-plasmin inhibitor, orcatalytic activity:Protein glutamine + alkylamine = protein N(5)-alkylglutamine + NH(3).,cofactor:Binds 1 calcium ion per subunit., disease: Defects in F13A1 are the cause of F13A deficiency [MIM:134570]. F13A deficiency is an autosomal recessive disorder characterized by a life-long bleeding tendency, impaired wound healing and spontaneous abortion in affected women. In addition to the common presentation such as subcutaneous and intramuscular haematomas, severe bleeding such as intracranial hemorrhages may occur., function: Factor XIII is activated by thrombin and calcium ion to a transglutaminase that catalyzes the formation of gamma-glutamyl-epsilon-lysine cross-links between fibrin chains, thus stabilizing the fibrin clot. Also cross-link alpha-2-plasmin inhibitor, or fibronectin, to the alpha chains of fibrin.,online information:Factor entry, online information:The Singapore human mutation database, polymorphism: There are four main allelic forms of this protein; F13A*1A, F13A*1B, F13A*2A and F13A*2B. In addition two other intermediate forms (F13A*(2)A and F13A*(2)B) seem to exist. The sequence shown is that of F13A*(2)B,,PTM:The activation peptide is released by thrombin, similarity: Belongs to the transglutaminase superfamily. Transglutaminase family,,subcellular location:Secreted into the blood plasma. Cytoplasmic in most tissues, but also secreted in the blood plasma., subunit: Tetramer of two A chains and two B chains.,

Research Area

Complement and coagulation cascades;

Image Data



Western blot analysis of lysates from Jurkat cells, treated with etoposide 25uM 24h, using FA13A (Cleaved-Gly39) Antibody. The lane on the right is blocked with the synthesized peptide.

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