Best Tools for immunology Research

Factor XIIIa (PT0258R) rabbit mAb

Catalog No :	YM7117
Reactivity :	Human;Mouse;(predicted: Rat)
Applications :	IHC;WB; ELISA
Target :	Factor XIIIa
Fields :	>>Complement and coagulation cascades;>>Coronavirus disease - COVID-19
Gene Name :	F13A1
Protein Name :	Factor XIIIa
Human Gene Id :	2162
Human Swiss Prot No :	P00488
Immunogen :	Synthesized peptide derived from human Factor XIIIa AA range:400-500
Specificity :	This antibody detects endogenous levels of Factor XIIIa
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source :	Monoclonal, Rabbit IgG1, Kappa
Dilution :	IHC 1:100-500, WB 1:500-1000, ELISA 1:5000-20000
Purification :	Recombinant Expression and Affinity purified
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	83kD

Background : 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 gamma-glutamyl-epsilon-lysine crosslinking between fibrin molecules, thus stabilizing the fibrin clot. It also crosslinks alpha-2-plasmin inhibitor, or

Function : catalytic 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 XIII entry,online information:The Singapore human

Subcellular Location : Cytoplasmic

Expression : Cytoplasmic

Tag : recombinant

Sort : 800

No4 : 1

Host : Rabbit

Modifications : Unmodified

Products Images