Product Name: Factor XIIIa Mouse Monoclonal Antibody
Catalog #: AMM22120
For research use only.

Summary

Description	Mouse Monoclonal Antibody
Host	Mouse
Application	IHC,ELISA
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG1,Kappa
Clonality	Monoclonal
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Purification	The antibody was affinity-purified from ascites by affinity-chromatography using specific immunogen.

Application

Dilution Ratio	IHC 1:200-400;ELISA 1:500-5000
Molecular Weight	Calculated MW:76kDa,83kDa,Observed MW:83kDa

Antigen Information

Gene Name	F13A1 F13A
Alternative Names	Coagulation factor XIII A chain;Coagulation factor XIIIa;Protein-glutamine gamma-glutamyltransferase A chain;Transglutaminase A chain;
Gene ID	Human:2162
SwissProt ID	Human:P00488
Immunogen	Synthesized peptide derived from human Factor XIIIa AA range: 400-500

Background

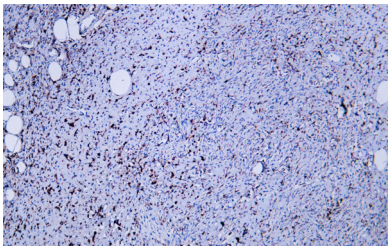
This gene encodes the coagulation factor XIII A subunit. Coagulation factor XIII is the last zymogen to become activated in the blood coagulation cascade. Plasma factor XIII is a heterotetramer composed of 2 A subunits and 2 B subunits. The A subunits

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

Research Area

Pathology

Image Data



Human dermatofibrosarcoma protuberans tissue was stained with Anti-Factor XIIIa Antibody