F13A1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	F13A1, Monoclonal Antibody
Full Product Name	F13A1 (Coagulation Factor XIII A Chain, Coagulation Factor XIIIa, Protein-glutamine gamma-glutamyltransferase A Chain, Transglutaminase A Chain,
Product Gene Name	anti-F13A1 antibody
Clonality	Monoclonal
Isotype	IgG
Clone Number	M1
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human F13A1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo
Molecular Weight	83,267 Da
Immunogen	Full length recombinant corresponding to aa1-732 from human F13A1 (AAH27963) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MSETSRTAFGGRRAVPPNNSNAAEDDLPTVELQGVVPRGVNLQEFLNATSVHLFKERWDTNKVDHHTDKYENNKLIVRRGQSFYVQIDFSRPYDPRRDL
Conjugate	MaxLight405
Product Categories/Family for anti-F13A1 antibody	Antibodies; Coagulation Factors
Applications Tested/Suitable for anti-F13A1 antibody	FLISA
Application Notes for anti-F13A1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-F13A1 antibody	Factor XIII is activated by thrombin and calcium ion to a transglutaminase that catalyzes the formation of gamma-glutamyl-epsilon-lysine cross-links be
Other Notes	Small volumes of anti-F13A1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necess

Searchable Terms for F13A1 purchase	MBS6190071 is an antibody targeting F13A1. Also known as F13A1 (Coagulation Factor XIII A Chain, Coagulation Factor XIIIa, Protein-glutamine gam

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for F13A1. It may not necessarily be applicable to this product.

NCBI GI #	20379734
NCBI GeneID	2162
NCBI Accession #	BC027963
NCBI Related Accession #	AAH27963
UniProt Secondary Accession #	Q59HA7; Q8N6X2; Q96P24; Q9BX29
UniProt Related Accession #	P00488
NCBI Official Full Name	Homo sapiens coagulation factor XIII, A1 polypeptide, mRNA
NCBI Official Synonym Full Names	coagulation factor XIII A chain
NCBI Official Symbol	F13A1
NCBI Official Synonym Symbols	F13A
Protein Family	Coagulation factor
NCBI Protein Information	coagulation factor XIII A chain
NCBI Summary for F13A1	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 fibronectin, to the alpha chains of fibrin. Factor XIII deficiency is classified into two categories: type I deficiency, characterized by the lack of both the A and B subunits; and type II deficiency, characterized by the lack of the A subunit alone. These defects can result in a lifelong bleeding tendency, defective wound healing, and habitual abortion. [provided by RefSeq, Jul 2008]
Research Articles on F13A1	**1.** Deletion of 11 or more N-terminal amino acids disrupts intersubunit interactions, which may prevent FXIII-A2 homodimer formation. AP-FXIII plays an important role in the stability of the FXIII-A2 dimer.
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