F13A1 monoclonal antibody, clone F13A1/1447

Catalog # MAB14521 Size 100 ug

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant human F13A1.
Immunogen	Recombinant protein corresponding to amino acids 46-181 of human F13A1.
Host	Mouse
Theoretical MW (kDa)	83
Reactivity	Human
Form	Liquid
Purification	Protein A/G purification
Isotype	IgG2a
Recommend Usage	Flow Cytometry (0.5-1 ug/10^6 cells) Immunofluorescence (0.5-1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 10 mM PBS (0.05% BSA, 0.05% sodium azide).
Storage Instruction	Store at 4°C.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunofluorescence
- Flow Cytometry

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Gene Info — F13A1

Entrez GeneID	2162
Protein Accession#	P00488
Gene Name	F13A1
Gene Alias	F13A
Gene Description	coagulation factor XIII, A1 polypeptide
Omim ID	134570
Gene Ontology	Hyperlink
Gene Summary	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
Other Designations	FSF, A subunit|TGase|bA525O21.1 (coagulation factor XIII, A1 polypeptide)|coagulation factor XIII A1 subunit|coagulation factor XIII, A polypeptide|factor XIIIa|fibrin stabilizing factor, A subunit|fibrin oligase|protein-glutamine gamma-glutamyltransferase

Publication Reference

- The coagulation cascade: initiation, maintenance, and regulation.

  Davie EW, Fujikawa K, Kisiel W.

  Biochemistry 1991 Oct; 30(43):10363.

Pathway

- Complement and coagulation cascades

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Disease

- Abortion
- Activated Protein C Resistance
- Acute Disease
- Alzheimer disease
- Anemia
- Aneurysm
- Angina Pectoris
- Antiphospholipid Syndrome
- Arterial Occlusive Diseases
- Arteriosclerosis
- Arthritis
- Atherosclerosis
- Atrial Fibrillation
- beta-Thalassemia
- Blood Coagulation Disorders
- Brain Ischemia
- Bronchopulmonary Dysplasia
- Cadaver
- Calcinosis
- Cardiovascular Diseases
- Carotid Stenosis
- Celiac Disease
- Cerebral Hemorrhage
- Cerebral Infarction

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- Cerebrovascular Accident
- Cerebrovascular Disorders
- Chorioamnionitis
- Choroidal Neovascularization
- Chronic Disease
- Cleft Lip
- Cleft Palate
- Coagulation Protein Disorders
- Cognition
- Colitis
- Conjunctival Diseases
- Coronary Artery Disease
- Coronary Disease
- Coronary Thrombosis
- Critical Illness
- Crohn Disease
- Diabetes Mellitus
- Disease Progression
- Ductus Arteriosus
- Edema
- Eye Hemorrhage
- Factor VII Deficiency
- Factor XIII Deficiency
- Fetal Death
- Fetal Growth Retardation
- Fetal Membranes

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- Foramen Ovale
- Genetic Predisposition to Disease
- Heart Defects
- Heart Septal Defects
- Hemophilia A
- Hemorrhage
- Hemorrhagic Disorders
- Hyperlipidemias
- Hypertension
- Infant
- Infertility
- Inflammation
- Inflammatory Bowel Diseases
- Insulin Resistance
- Intracranial Aneurysm
- Intracranial Embolism
- Intracranial Hemorrhages
- Ischemic Attack
- Kidney Failure
- Leukomalacia
- Macular Degeneration
- Metabolic Syndrome X
- Mouth Neoplasms
- Myocardial Infarction
- Myocardial Ischemia
- Myopia

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- Neoplasms
- Neuropsychological Tests
- Obesity
- Obstetric Labor
- Ovarian cancer
- Ovarian Neoplasms
- Peripheral Vascular Diseases
- Postoperative Complications
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Priapism
- Pulmonary Embolism
- Purpura
- Recurrence
- Sclerosis
- Sepsis
- Shock
- Stroke
- Subarachnoid Hemorrhage
- Thalassemia
- Thromboembolism
- Thrombophilia
- Thrombosis
- Tobacco Use Disorder
- Varicose Ulcer

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- Vascular Diseases
- Venous Thrombosis
- Werner syndrome

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