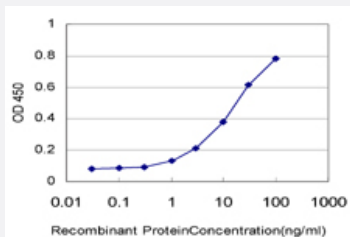


F13A1 monoclonal antibody (M02), clone M1

Catalog # H00002162-M02

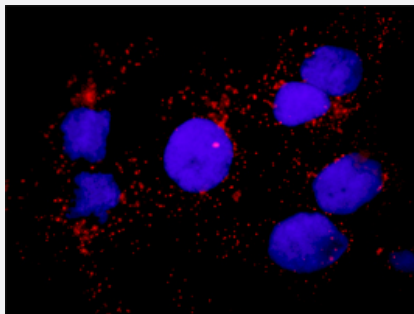
Size 100 ug

Applications



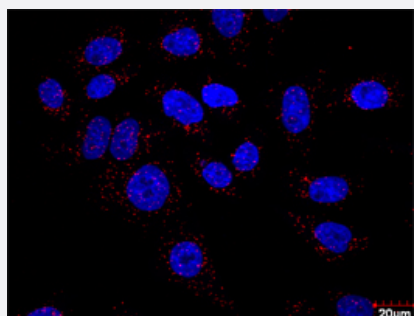
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged F13A1 is approximately 0.3ng/ml as a capture antibody.



In situ Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between HSPB1 and F13A1. Huh7 cells were stained with anti-HSPB1 rabbit purified polyclonal 1:1200 and anti-F13A1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



In situ Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between HSPB1 and F13A1. HeLa cells were stained with anti-HSPB1 rabbit purified polyclonal 1:100 and anti-F13A1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

Specification

Product Description

Mouse monoclonal antibody raised against a full length recombinant F13A1.

Immunogen	F13A1 (AAH27963, 1 a.a. ~ 732 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MSETSRTAFGGRRVPPNNSNAAEDDLPTVELQGVVPRGVNLQEFLNATSVHLFKERWDTNKV DHHTDKYENNNKLIVRRGQSFYVQIDFSRPYDPRRDLFRVEYVIGRYPQENKGTYPVPIVSELQSGK WGAKIVMREDRSVRLSIQSSPKCIVGKFRMYAVVWTPYGVLRNTPETDTYILFNPWCEDDAVY LDNEKEREEYVLNDIGVIFYGEVNDIKTRWSYGGFEDGILDTCLYMDRAQMDLSGRGNPIKVSR VGSAMVNAKDDEGLVVGSDNIYAYGVPPSAWTGSVDILLEYSSENPNVRYGQCWVFAGVFNT FLRCLGIPARVNTNYFSAHDNDANLQMDIFLEEDGNVNSKLTKDSVWNYHCWNEAWMTRPDLPV GFGGWQAQVDSTPQENS DGM YRCGPASVQAIAKHGHVCFQFDAPFVFAEVNSDLMTAKKDGHV VENVDATHIGKLIVTKQIGGDGMMDITDTYKFQEGQEEERLALETALMYGAKKPLNTEGVMKSRN VDMDFEVENAVLGKDFKLSITFRNNSHNRYTITAYLSANITFYTGVPKAEFKKETFDTVLEPLSFKK EAVLIQAGEYMGQLLEQASLHFFVTARINETRDVLAKQKSTVLTIPEIIKVRGTQVVGSDMTVVEFT NPLKETLRNVVHLDGPGVTRPMKKMFREIRPNSTVQWEEVCRPWVSGHRKLIASMSSDSLRLH VYGELDVQIQRPSM
Host	Mouse
Reactivity	Human
Isotype	IgG
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged F13A1 is approximately 0.3ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- *In situ* Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between HSPB1 and F13A1. Huh7 cells were stained with anti-HSPB1 rabbit purified polyclonal 1:1200 and anti-F13A1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

- *In situ* Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between HSPB1 and F13A1. HeLa cells were stained with anti-HSPB1 rabbit purified polyclonal 1:100 and anti-F13A1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

Gene Info — F13A1

Entrez GeneID [2162](#)

GeneBank Accession# [BC027963](#)

Protein Accession# [AAH27963](#)

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

Pathway

- [Complement and coagulation cascades](#)

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](#)
- [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](#)
- [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](#)
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- [Myocardial Ischemia](#)
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- [Ovarian cancer](#)
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- [Pre-Eclampsia](#)
- [Pregnancy Complications](#)
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- [Priapism](#)
- [Pulmonary Embolism](#)
- [Purpura](#)
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- [Tobacco Use Disorder](#)
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- [Vascular Diseases](#)
- [Venous Thrombosis](#)
- [Werner syndrome](#)