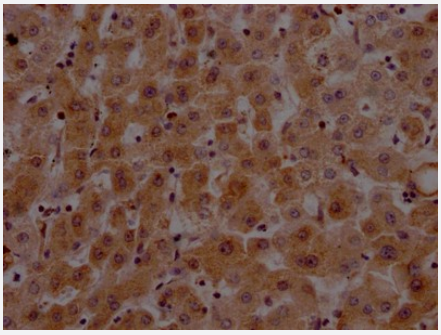
RecomAb™ Sm Size

# F2 recombinant monoclonal antibody, clone 9A1

Catalog # RAB08254 Size 50 uL

## Applications



### Immunohistochemistry

Immunohistochemistry image of F2 recombinant monoclonal antibody, clone 9A1 diluted at 1:100 and staining in paraffin-embedded human liver tissue performed on a Leica Bond™ system.

## Specification

| | |
|---|---|
| **Product Description** | Rabbit recombinant monoclonal antibody raised against human F2. |
| **Antibody Species** | Rabbit |
| **Immunogen** | Original antibody is raised against recombinant protein corresponding to full length human F2. |
| **Reactivity** | Human |
| **Form** | Liquid |
| **Preparation Method** | Mammalian cell (HEK293) expression system |
| **Purification** | Affinity chromatography |
| **Isotype** | IgG |
| **Recommend Usage** | ELISA<br>Immunohistochemistry (1:50-1:200)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS, pH7.4 (150mM NaCl, 50% glycerol and 0.02% sodium azide) |

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| | |
|---|---|
| **Storage Instruction** | Store at -20 °C or -80 °C.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Immunohistochemistry

  Immunohistochemistry image of F2 recombinant monoclonal antibody, clone 9A1 diluted at 1:100 and staining in paraffin-embedded human liver tissue performed on a Leica Bond™ system.

- Enzyme-linked Immunoabsorbent Assay

## Gene Info — F2

| | |
|---|---|
| **Entrez GeneID** | 2147 |
| **Protein Accession#** | P00734 |
| **Gene Name** | F2 |
| **Gene Alias** | PT |
| **Gene Description** | coagulation factor II (thrombin) |
| **Omim ID** | 176930 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | Coagulation factor II is proteolytically cleaved to form thrombin in the first step of the coagulation c ascade which ultimately results in the stemming of blood loss. F2 also plays a role in maintaining vascular integrity during development and postnatal life. Mutations in F2 leads to various forms of thrombosis and dysprothrombinemia. [provided by RefSeq |
| **Other Designations** | coagulation factor II\|prothrombin B-chain\|serine protease |

## Pathway

- Complement and coagulation cascades
- Neuroactive ligand-receptor interaction

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- Regulation of actin cytoskeleton

## Disease

- Abortion
- Abruptio Placentae
- Activated Protein C Resistance
- Acute Disease
- Albuminuria
- Alcoholism
- Alzheimer disease
- Amyotrophic lateral sclerosis
- Anemia
- Angina Pectoris
- Anoxia
- Antiphospholipid Syndrome
- Antithrombin III Deficiency
- Apnea
- Arterial Occlusive Diseases
- Arteriosclerosis
- Atherosclerosis
- Atrial Fibrillation
- Behcet Syndrome
- beta-Thalassemia
- Birth Weight
- Blood Coagulation Disorders
- Blood Platelet Disorders

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- Body Weight
- Brain Diseases
- Brain Infarction
- Brain Ischemia
- Breast cancer
- Breast Neoplasms
- Bronchopulmonary Dysplasia
- Budd-Chiari Syndrome
- Cadaver
- Calcinosis
- Carcinoma
- Cardiomyopathy
- Cardiovascular Diseases
- Carotid Stenosis
- Celiac Disease
- Central Nervous System Vascular Malformations
- Cerebral Hemorrhage
- Cerebral Infarction
- Cerebral Palsy
- Cerebrovascular Accident
- Cerebrovascular Disorders
- Chorioamnionitis
- Choroidal Neovascularization
- Chronic Disease
- Coagulation Protein Disorders
- Colitis

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- Colorectal Neoplasms
- Connective Tissue Diseases
- Constriction
- Coronary Artery Disease
- Coronary Disease
- Coronary Restenosis
- Coronary Stenosis
- Coronary Thrombosis
- Crohn Disease
- Death
- Diabetes Complications
- Diabetes Mellitus
- Disease Progression
- Disease Susceptibility
- Ductus Arteriosus
- Eclampsia
- Edema
- Embolism
- Embryo Loss
- Epilepsy
- Epistaxis
- Escherichia coli Infections
- Esophageal and Gastric Varices
- Eye Diseases
- Factor V Deficiency
- Factor VII Deficiency

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- Factor XIII Deficiency
- Familial Mediterranean fever
- Femur Head Necrosis
- Fetal Death
- Fetal Diseases
- Fetal Growth Retardation
- Fetal Membranes
- Foramen Ovale
- Fractures
- Gastrointestinal Hemorrhage
- Gastroschisis
- Gaucher disease
- Genetic Diseases
- Genetic Predisposition to Disease
- Genital Neoplasms
- Glaucoma
- Glomerulonephritis
- Glucosephosphate Dehydrogenase Deficiency
- Hearing Loss
- Heart Defects
- Heart Diseases
- Heart Septal Defects
- HELLP Syndrome
- Hematologic Neoplasms
- Hemiplegia
- Hemochromatosis

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- Hemolytic-Uremic Syndrome
- Hemophilia A
- Hemophilia B
- Hemorrhage
- Hemorrhagic Disorders
- Hepatic Vein Thrombosis
- Hepatitis C
- Hypercholesterolemia
- Hyperhomocysteinemia
- Hyperinsulinism
- Hyperlipidemias
- Hyperlipoproteinemia Type II
- Hypertension
- Infant
- Infection
- Infertility
- Inflammation
- Inflammatory Bowel Diseases
- Insulin Resistance
- Intracranial Arterial Diseases
- Intracranial Arteriovenous Malformations
- Intracranial Embolism
- Intracranial Embolism and Thrombosis
- Intracranial Hemorrhages
- Intracranial Thrombosis

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- Inversion
- Iron Overload
- Ischemia
- Ischemic Attack
- Kidney Calculi
- Kidney Diseases
- Kidney Failure
- Legg-Perthes Disease
- Leukemia
- Leukomalacia
- Liver Cirrhosis
- Lupus Erythematosus
- Macular Degeneration
- Mesenteric Vascular Occlusion
- Metabolic Diseases
- Metabolic Syndrome X
- Migraine Disorders
- Migraine with Aura
- Mitral Valve Prolapse
- Mouth Neoplasms
- Muscle Hypotonia
- Musculoskeletal Diseases
- Myeloproliferative Disorders
- Myocardial Infarction
- Myocardial Ischemia
- Necrosis
- Neoplasm Recurrence

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- Neoplasms
- Nervous System Diseases
- Obesity
- Obstetric Labor
- Optic Neuropathy
- Osteonecrosis
- Osteoporosis
- Ovarian cancer
- Ovarian Failure
- Ovarian Neoplasms
- Overweight
- Peripheral Vascular Diseases
- Phlebitis
- Placenta Diseases
- Polycystic Ovary Syndrome
- Polycythemia
- Polycythemia Vera
- Postoperative Complications
- Postpartum Hemorrhage
- Postthrombotic Syndrome
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Protein C Deficiency
- Protein Deficiency
- Protein S Deficiency

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- Pseudotumor Cerebri
- Puberty
- Puerperal Disorders
- Pulmonary Embolism
- Purpura
- Recurrence
- Retinal Artery Occlusion
- Retinal Vein Occlusion
- Seizures
- Sepsis
- Severe Acute Respiratory Syndrome
- Sickle Cell Trait
- Sinus Thrombosis
- Skin Diseases
- Splenomegaly
- Stomach Neoplasms
- Stroke
- Subarachnoid Hemorrhage
- Syndrome
- Tension-Type Headache
- Thalassemia
- Thrombasthenia
- Thromboangiitis Obliterans
- Thrombocythemia
- Thrombocytopenia
- Thromboembolism

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- Thrombophilia
- Thrombosis
- Thrombotic Microangiopathies
- Tobacco Use Disorder
- Trauma
- Turner Syndrome
- Upper Extremity Deep Vein Thrombosis
- Varicose Ulcer
- Varicose Veins
- Vascular Diseases
- Venous Thrombosis
- Vertebral Artery Dissection
- von Willebrand Disease
- Wegener Granulomatosis
- Werner syndrome

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