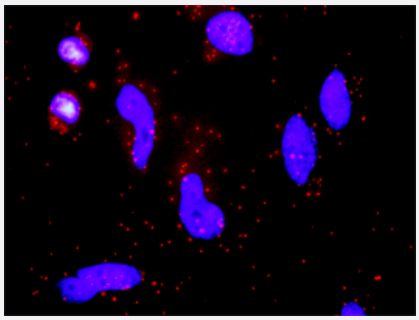
F7 & F3 Protein Protein Interaction Antibody Pair

Catalog # DI0178 Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between F7 and F3. HeLa cells were stained with anti-F7 rabbit purified polyclonal antibody 1:1200 and anti-F3 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex. The images were analyzed using an optimized freeware (BlobFinder) download from The Centre for Image Analysis at Uppsala University.

Specification

Product Description	This protein protein interaction antibody pair set comes with two antibodies to detect the protein-protein interaction, one against the F7 protein, and the other against the F3 protein for use in *in situ* Proximity Ligation Assay. See Publication Reference below.
Reactivity	Human
Quality Control Testing	Protein protein interaction immunofluorescence result. Representative image of Proximity Ligation Assay of protein-protein interactions between F7 and F3. HeLa cells were stained with anti-F7 rabbit purified polyclonal antibody 1:1200 and anti-F3 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex. The images were analyzed using an optimized freeware (BlobFinder) download from The Centre for Image Analysis at Uppsala University.
Supplied Products	Antibody pair set content: 1. F7 rabbit purified polyclonal antibody (100 ug) 2. F3 mouse monoclonal antibody (40 ug) *Reagents are sufficient for at least 30-50 assays using recommended protocols.
Storage Instruction	Store reagents of the antibody pair set at -20°C or lower. Please aliquot to avoid repeated freeze thaw cycle. Reagents should be returned to -20°C storage immediately after use.

Applications

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- *In situ* Proximity Ligation Assay (Cell)

Gene Info — F3

Entrez GeneID	2152
Gene Name	F3
Gene Alias	CD142, TF, TFA
Gene Description	coagulation factor III (thromboplastin, tissue factor)
Omim ID	134390
Gene Ontology	Hyperlink
Gene Summary	This gene encodes coagulation factor III which is a cell surface glycoprotein. This factor enables c ells to initiate the blood coagulation cascades, and it functions as the high-affinity receptor for the coagulation factor VII. The resulting complex provides a catalytic event that is responsible for initia tion of the coagulation protease cascades by specific limited proteolysis. Unlike the other cofacto rs of these protease cascades, which circulate as nonfunctional precursors, this factor is a potent initiator that is fully functional when expressed on cell surfaces. There are 3 distinct domains of thi s factor: extracellular, transmembrane, and cytoplasmic. This protein is the only one in the coagula tion pathway for which a congenital deficiency has not been described. [provided by RefSeq
Other Designations	OTTHUMP00000012426|coagulation factor III|tissue factor

Gene Info — F7

Entrez GeneID	2155
Gene Name	F7
Gene Alias	-
Gene Description	coagulation factor VII (serum prothrombin conversion accelerator)
Omim ID	227500
Gene Ontology	Hyperlink

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Gene Summary	This gene encodes coagulation factor VII which is a vitamin K-dependent factor essential for hemostasis. This factor circulates in the blood in a zymogen form, and is converted to an active form by either factor IXa, factor Xa, factor XIIa, or thrombin by minor proteolysis. Upon activation of the factor VII, a heavy chain containing a catalytic domain and a light chain containing 2 EGF-like domains are generated, and two chains are held together by a disulfide bond. In the presence of factor III and calcium ions, the activated factor then further activates the coagulation cascade by converting factor IX to factor IXa and/or factor X to factor Xa. Alternative splicing of this gene results in 2 transcripts. Defects in this gene can cause coagulopathy. [provided by RefSeq
Other Designations	FVII coagulation protein|OTTHUMP00000018733|OTTHUMP00000018734|coagulation factor VII|eptacog alfa

Pathway

- Complement and coagulation cascades
- Complement and coagulation cascades

Disease

- Abortion
- Activated Protein C Resistance
- Acute Disease
- Acute Disease
- Alzheimer disease
- Alzheimer disease
- Amyotrophic lateral sclerosis
- Anemia
- Angina
- Angina Pectoris
- Arterial Occlusive Diseases
- Arteriosclerosis
- Atherosclerosis

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- Atherosclerosis
- Atrial Fibrillation
- Birth Weight
- Blood Coagulation Disorders
- Body Weight
- Brain Ischemia
- Brain Ischemia
- Bronchopulmonary Dysplasia
- Budd-Chiari Syndrome
- Carcinoma
- Cardiovascular Diseases
- Cardiovascular Diseases
- Carotid Artery Diseases
- Carotid Stenosis
- Carotid Stenosis
- Cerebral Hemorrhage
- Cerebral Infarction
- Cerebral Palsy
- Cerebrovascular Accident
- Cerebrovascular Disorders
- Chorioamnionitis
- Chorioamnionitis
- Chronic Disease
- Connective Tissue Diseases
- Constriction
- Coronary Artery Disease

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- Coronary Disease
- Coronary Restenosis
- Coronary Stenosis
- Coronary Thrombosis
- Coronary Thrombosis
- Diabetes Complications
- Diabetes Complications
- Diabetes Mellitus
- Diabetes Mellitus
- Diabetic Angiopathies
- Disease Progression
- Edema
- Edema
- Factor VII Deficiency
- Factor XIII Deficiency
- Fetal Diseases
- Fetal Membranes
- Fetal Membranes
- Genetic Diseases
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Heart Defects
- Hemophilia A
- Hemorrhage
- Hemorrhage
- Hemorrhagic Disease of Newborn

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- Hemorrhagic Disorders
- Hepatitis
- Hypercholesterolemia
- Hyperlipidemias
- Hyperlipoproteinemia Type II
- Hypertension
- Infant
- Infection
- Inflammation
- Insulin Resistance
- Intracranial Embolism
- Intracranial Thrombosis
- Ischemic Attack
- Kidney Failure
- Kidney Failure
- Leukomalacia
- Liver Cirrhosis
- Metabolic Syndrome X
- Metabolic Syndrome X
- Migraine Disorders
- Musculoskeletal Diseases
- Myocardial Infarction
- Myocardial Ischemia
- Myocardial Ischemia
- Neoplasms

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- Neoplasms
- Obesity
- Obstetric Labor
- Obstetric Labor
- Osteoporosis
- Osteoporosis
- Periodontitis
- Peripheral Vascular Diseases
- Postoperative Complications
- Pre-Eclampsia
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Premature Birth
- Recurrence
- Renal Insufficiency
- Sepsis
- Skin Diseases
- Stroke
- Stroke
- Subarachnoid Hemorrhage
- Thromboembolism
- Thrombophilia
- Thrombosis
- Thrombosis
- Vascular Diseases

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- Venous Thrombosis
- Vitamin K Deficiency
- Werner syndrome
- Werner syndrome

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