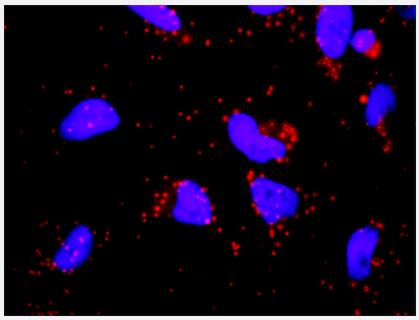
GP1BA & F12 Protein Protein Interaction Antibody Pair

Catalog # DI0173 Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between GP1BA and F12. HeLa cells were stained with anti-GP1BA rabbit purified polyclonal antibody 1:1200 and anti-F12 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 GP1BA protein, and the other against the F12 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 GP1BA and F12. HeLa cells were stained with anti-GP1BA rabbit purified polyclonal antibody 1:1200 and anti-F12 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 Product	Antibody pair set content: 1. GP1BA rabbit purified polyclonal antibody (100 ug) 2. F12 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

- *In situ* Proximity Ligation Assay (Cell)

Gene Info — F12

Entrez GeneID	2161
Gene Name	F12
Gene Alias	HAE3, HAEX, HAF
Gene Description	coagulation factor XII (Hageman factor)
Omim ID	234000 610618 610619
Gene Ontology	Hyperlink
Gene Summary	This gene encodes coagulation factor XII which circulates in blood as a zymogen. This single chai n zymogen is converted to a two-chain serine protease with an heavy chain (alpha-factor XIIa) and a light chain. The heavy chain contains two fibronectin-type domains, two epidermal growth factor (EGF)-like domains, a kringle domain and a proline-rich domain, whereas the light chain contains only a catalytic domain. On activation, further cleavages takes place in the heavy chain, resulting i n the production of beta-factor XIIa light chain and the alpha-factor XIIa light chain becomes beta-f actor XIIa heavy chain. Prekallikrein is cleaved by factor XII to form kallikrein, which then cleaves f actor XII first to alpha-factor XIIa and then to beta-factor XIIa. The active factor XIIa participates in t he initiation of blood coagulation, fibrinolysis, and the generation of bradykinin and angiotensin. It activates coagulation factors VII and XI. Defects in this gene do not cause any clinical symptoms and the sole effect is that whole-blood clotting time is prolonged. [provided by RefSeq
Other Designations	Hageman factor|coagulation factor XII

Gene Info — GP1BA

Entrez GeneID	2811
Gene Name	GP1BA
Gene Alias	BSS, CD42B, CD42b-alpha, GP1B, MGC34595
Gene Description	glycoprotein Ib (platelet), alpha polypeptide
Omim ID	177820 231200 258660 606672
Gene Ontology	Hyperlink

Gene Summary	Glycoprotein Ib (GP Ib) is a platelet surface membrane glycoprotein composed of a heterodimer, an alpha chain and a beta chain, that are linked by disulfide bonds. The Gp Ib functions as a rece ptor for von Willebrand factor (VWF). The complete receptor complex includes noncovalent assoc iation of the alpha and beta subunits with platelet glycoprotein IX and platelet glycoprotein V. The binding of the GP Ib-IX-V complex to VWF facilitates initial platelet adhesion to vascular subendot helium after vascular injury, and also initiates signaling events within the platelet that lead to enhan ced platelet activation, thrombosis, and hemostasis. This gene encodes the alpha subunit. Sever al polymorphisms and mutations have been described in this gene, some of which are the cause of Bernard-Soulier syndromes and platelet-type von Willebrand disease. [provided by RefSeq
Other Designations	platelet glycoprotein Ib alpha polypeptide|platelet membrane glycoprotein 1b-alpha subunit

Pathway

- Complement and coagulation cascades
- ECM-receptor interaction
- Hematopoietic cell lineage

Disease

- Abortion
- Acute Chest Syndrome
- Acute Disease
- Acute Disease
- Anemia
- Aneurysm
- Angina
- Angina
- Antiphospholipid Syndrome
- Arterial Occlusive Diseases
- Arteriosclerosis
- Atherosclerosis
- Atherosclerosis

- Bernard-Soulier Syndrome
- Blood Coagulation Disorders
- Blood Platelet Disorders
- Brain Ischemia
- Calcinosis
- Carcinoma
- Cardiovascular Diseases
- Cardiovascular Diseases
- Carotid Artery Diseases
- Carotid Stenosis
- Cerebral Hemorrhage
- Cerebral Infarction
- Cerebral Infarction
- Cerebrovascular Accident
- Cerebrovascular Accident
- Cerebrovascular Disorders
- Chorioamnionitis
- Chorioamnionitis
- Chromosome Deletion
- Coronary Artery Disease
- Coronary Artery Disease
- Coronary Disease
- Coronary Disease
- Coronary Restenosis
- Coronary Stenosis
- Coronary Thrombosis

- Death
- Diabetes Mellitus
- Diabetes Mellitus
- Diabetic Angiopathies
- Diabetic Angiopathies
- Disease Progression
- Disease Progression
- Ductus Arteriosus
- Edema
- Edema
- Factor XII Deficiency
- Fetal Membranes
- Fetal Membranes
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Glomerulonephritis
- Glomerulonephritis
- Heart Diseases
- Hemolytic-Uremic Syndrome
- Hemorrhage
- Hemorrhagic Disorders
- Hemorrhagic Disorders
- Hypercholesterolemia
- Hypercholesterolemia
- Hyperhomocysteinemia
- Hypertension

- Hypertension
- Hypertriglyceridemia
- Infant
- Inflammation
- Insulin Resistance
- Intracranial Aneurysm
- Intracranial Thrombosis
- Intraoperative Complications
- Ischemic Attack
- Kidney Failure
- Kidney Failure
- Lupus Erythematosus
- Mouth Neoplasms
- Myocardial Infarction
- Myocardial Infarction
- Myocardial Ischemia
- Obstetric Labor
- Obstetric Labor
- Pain
- Peripheral Vascular Diseases
- Polycythemia Vera
- Postoperative Complications
- Pre-Eclampsia
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth

- Premature Birth
- Prosthesis Failure
- Protein S Deficiency
- Pulmonary Embolism
- Recurrence
- Recurrence
- Retinal Vein Occlusion
- Stroke
- Subarachnoid Hemorrhage
- Syndrome
- Thalassemia
- Thrombocythemia
- Thrombocytopenia
- Thromboembolism
- Thrombophilia
- Thrombophilia
- Thrombosis
- Thrombosis
- Vascular Diseases
- Venous Thrombosis
- von Willebrand Disease
- Werner syndrome
- Werner syndrome