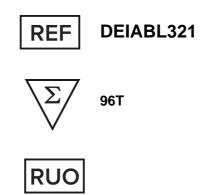




# beta2-Glycoprotein I Screen ELISA Kit



This product is for research use only and is not intended for diagnostic use.

For illustrative purposes only. To perform the assay the instructions for use provided with the kit have to be used.

#### **Creative Diagnostics**

Address: 45-1 Ramsey Road, Shirley, NY 11967, USA

Tel: 1-631-624-4882 (USA) 44-161-818-6441 (Europe) Fax: 1-631-938-8221

#### PRODUCT INFORMATION

#### **Intended Use**

Beta 2-Glycoprotein 1 Screen ELISA is a solid phase enzyme immunoassay employing native β2glycoproteinI highly purified from human plasma for the combined quantitative and qualitative detection of IgA, IgG and IgM antibodies against β2-glycoprotein I in human serum. Anti-β2-glycoprotein I antibodies recognize specific epitopes on human β2-glycoprotein I which are expressed only when β2-glycoprotein I interacts with lipid membranes or when absorbed to other surfaces (e.g. microtiter plate). The assay is an aid in the diagnosis and risk of primary and secondary antiphospholipid syndrome (APS).

## **General Description**

Beta 2-Glycoprotein 1 Screen ELISA is a solid phase enzyme immunoassay employing native β2glycoprotein I highly purified from human plasma for the combined quantitative detection of IgA, IgG and IgM anti-bodies against β2-glycoprotein I in human serum. Anti-β2-glycoprotein I antibodies recognize specific epitopes on human β2-glycoprotein I which are expressed only when β2-glycoprotein I interacts with lipid membranes or when absorbed to other surfaces (e.g. microtiter plate). The assay is an aid in the diagnosis and risk of primary and secondary antiphospholipid syndrome (APS). Antibodies against β2-glycoprotein I belong to the group of anti-phospholipid antibodies mainly targeted against complexes composed of negatively charged phospholipids (cardiolipin e.g) and plasma proteins like β2- glycoprotein I, prothrombin, protein C or protein S. Reactivity against isolated β2- glycoprotein I is found, too. Thus β2-glycoprotein I is discussed to be an autoantigen on its own. \( \beta 2 \)-glycoprotein I, also called apolipoprotein H, is a 50 kDa \( \beta 2 \) globuline which is associated in vivo with lipoprotein, platelets and phospholipids and which seems to inhibit the intrinsic coagulation pathway, the prothrombinase activity and the ADP-dependent platelet aggregation. Anti-phospholipid antibodies are frequently found in sera of patients with systemic lupus erythematosus and related diseases and are typical for the secondary development of an antiphospholipid syndrome (APS). Whilst, anti-phospholipid antibodies in patients with no other autoimmune diseases characterize a primary APS. Many studies have shown a correlation between these autoantibodies and an enhanced incidence of thrombosis, thrombocytopenia and habitual abortions (as a consequence of placental infarction). The exact mechanism how pathogenic anti-phospholipid antibodies induce thrombosis has not been revealed yet.

# **Storage**

2-8°C

#### **Precision**

Intra-assay			
Sample No.	Mean (U/ml)	CV (%)	
1	2.7	0.3	
2	23.7	2.7	
3	46.0	3.0	

Inter-assay			
Sample No.	Mean (U/ml)	CV (%)	
1	2.3	0.9	
2	27.3	3.9	
3	54.3	5.7	

## **Detection Range**



**Tel:** 1-631-624-4882 (USA)

Tel: 44-161-818-6441 (Europe)



**Fax:** 1-631-938-8221



Email: info@creative-diagnostics.com

0 - 300 U/mL, cut-off 20 U/mL

# Sensitivity

1.0 U/ml.

Tel: 1-631-624-4882 (USA)

Tel: 44-161-818-6441 (Europe)

**Fax:** 1-631-938-8221