

## ANTI-PHOSPHOLIPID PRODUCTS

- Anti-Cardiolipin
- Anti-Phosphatidylserine
- Anti-Beta 2 Glycoprotein I
- Anti-Prothrombin

### **Anti-Cardiolipin (aCL) antibodies IgG/IgM & IgA**

**Product No. 023-001 (IgG/IgM) 96 wells**

**023-002 (IgG/IgM) 288 wells**

**023-004 (IgG/IgM) 960 wells**

**Product No. 026-001 (IgA) 96 wells**

**026-006 (IgA) 288 wells**

Anti-Cardiolipin antibodies (IgG, IgM, and IgA) are associated with arterial and venous thrombosis, thrombocytopenia, and recurrent fetal loss (antiphospholipid syndrome). They are frequently found in patients with systemic lupus erythematosus (SLE) and other autoimmune diseases.

### **Anti-Phosphatidylserine (aPS) antibodies IgG/IgM & IgA**

**Product No. 030-001 (IgG/IgM) 96 wells**

**030-002 (IgG/IgM) 288 wells**

**Product No. 10206 (IgA) 96 wells**

**10497 (IgA) 288 Wells**

Anti-Phosphatidylserine antibodies (IgG, IgM, and IgA) are associated with the same clinical manifestations as aCL. Phosphatidylserine is found in the membranes of platelets and endothelial cells, and participates in the coagulation cascade. Testing for antibodies to phosphatidylserine provides not only more clinically relevant results, but also additional information to assess the risk of thrombosis.

### **Anti-Beta 2 Glycoprotein I antibodies IgG, IgM & IgA**

**Product No. 037-001 (IgG) 96 wells**

**Product No. 038-001 (IgM) 96 wells**

**Product No. 039-001 (IgA) 96 wells**

Beta 2 Glycoprotein I (B2GPI) is a protein cofactor with natural anticoagulant properties and an affinity for negatively-charged phospholipids. Antibodies directed against B2GPI have been shown to be specific markers for thrombosis in individuals with systemic lupus erythematosus (SLE) and lupus-like disorders (antiphospholipid syndrome).

### **Anti-Prothrombin (aPT) antibodies IgG and IgM**

**Product No. 10238 (IgG) 96 wells**

**Product No. 10240 (IgM) 96 wells**

Prothrombin is a protein associated with the coagulation system that has strong phospholipid binding properties. Elevated serum or plasma levels of anti-prothrombin antibodies may add valuable information in the laboratory assessment of antiphospholipid antibodies.

## SUMMARY OF PROTOCOL

1. Add 100  $\mu$ l of Calibrator, Controls, and patient samples to the microwells.
2. Incubate at room temperature for 15 minutes.
3. Decant contents.
4. Wash 4 times (5 times for aCL IgA) with PBS (PBS/Tween 20 for  $\beta_2$ GP1).
5. Add 100  $\mu$ l of Conjugate to each well except the water blank.
6. Incubate at room temperature for 15 minutes.
7. Decant contents.
8. Wash 4 times (5 times for aCL IgA).
9. Add 100  $\mu$ l of Substrate to each well except the water blank.
10. Incubate at room temperature for 10 minutes.
11. Add 100  $\mu$ l of Stop Solution to each well except the water blank.
12. Add 200  $\mu$ l of distilled or deionized water to the water blank well.
13. Read the O.D. of each well at 450 nm, against a 650 nm reference filter, (if available), within 30 minutes.