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Recombinant Human β 2 Glycoprotein-I (B2GP1)

CLPRO388
CLPRO388-2
CLPRO388-3
Lot: 1109B2GP1

Introduction: β 2 Glycoprotein I (β 2 GP I) is a serum protein with a single polypeptide chain consisting of 326 amino acids and having a molecular weight of 50 kDa. The protein is also known by the alternative name Apolipoprotein H (ApoH) which gives an indication of its phospholipid binding function.

Since the detection of β 2 Glycoprotein I as a target of antiphospholipid antibodies in 1990 the discussion about the clinical relevance of β 2 GP I is still controversial. It is well established that anticardiolipin antibodies are a very heterogeneous group and that β 2 GP I is only one of several potential targets for anticardiolipin antibodies. Nevertheless it is generally accepted that the binding of β 2 GP I to anionic lipids or surface is essential for the differential detection of anticardiolipin antibodies associated with autoimmune diseases (versus those associated with infectious diseases like syphilis, tuberculosis, AIDS, etc).

The close relationship of β 2 GP I antibodies and cardiolipin antibodies may indicate that the β 2 GP I isotypes have the same clinical relevance as the cardiolipin isotypes, where IgM, IgG and IgA autoantibodies have been observed and are routinely determined diagnostic targets.

B2GP1 antibodies and anticardiolipin antibodies can be detected in patients with arterial and venous thrombosis, recurrent fetal loss, thrombosis and SLE. The titers of anticardiolipin and anti- β 2 GP I antibodies usually fluctuate sufficiently that they cannot be used for disease monitoring.

Description: Recombinant Human β 2 Glycoprotein-I produced in SF9 is a glycosylated, polypeptide chain containing 326 amino acids and having a molecular mass of 38,200 Dalton (excluding glycosylation), 45 kDa total mass.

B2GP1 is expressed with a -6xHis tag and purified by proprietary chromatographic techniques.

Synonyms: Beta-2-glycoprotein 1, Beta-2-glycoprotein I, Apolipoprotein H, Apo-H, B2GPI, Beta(2)GPI, Activated protein C-binding protein, APC inhibitor, Anticardiolipin cofactor, APOH, B2G1, BG, β 2GP-1, β 2 Glycoprotein-I.

Source: Sf9 insect cells.

Presentation: 5 μ g (CLPRO388), 20 μ g (CLPRO388-2), or 1 mg (CLPRO388-3), sterile filtered (1 mg/ml) clear solution. B2GP1 is supplied in 16 mM HEPES buffer pH 7.2, 200 mM NaCl, and 20% glycerol.

Immunological functions:

1. Binds IgA & IgG-type human auto-antibodies, Auto-antibodies to β 2 glycoprotein I recognize conformation dependent and linear epitopes.
2. Standard ELISA test (checker-board analysis of positive/negative sera panels including a reference calibrator).

Continued...

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Applications:

Western-Blot with monoclonal anti-hexa-His-tag antibody and Goodpasture patient sera.

Coating concentration:

0.5-1 µg/ml (depending on the type of ELISA plate and coating buffer).

Suitable for biotinylation and iodination.

Storage Conditions:

Store at 4°C if entire vial will be used within 2-4 weeks.

Store, frozen at -20°C for longer periods of time.

Avoid multiple freeze-thaw cycles.

Purity:

Greater than 90% as determined by SDS-PAGE.

Laboratory Reagent For Research Use Only

JV 11/19/09