

## **β2-Glycoprotein 1 (Apolipoprotein H)**

### **Antigen Specification**

**Product Number: 14900**

**Description:**

Human β2-glycoprotein 1 (β2-GP 1), also known as Apolipoprotein H or Apo H. Recombinant antigen for research use or manufacturing only.

**Immunological function:**

Binds IgG, IgA and IgM-type human auto-antibodies. Auto-antibodies to β2-glycoprotein 1 recognize conformation-dependent and linear epitopes.

**Origin:**

Recombinant. Expressed by recombinant baculovirus (*Autographa californica* multiple nuclear polyhedrosis virus; AcMNPV) infection of *Spodoptera frugiperda* Sf9 insect cells.

**Expression construct:**

Full-length cDNA coding for human β2-glycoprotein 1 fused to a hexa-histidine purification tag. After cleavage of the secretory leader pre-sequence the sequence corresponding to the mature recombinant β2-glycoprotein 1 has a length of 326 amino acids.

**Biochemical tests:**

SDS-PAGE (purity > 90%); Western blot with i: polyclonal rabbit anti-ApoH antibody; ii: monoclonal anti-hexa-His-tag antibody.

**Calculated molecular weight:**

38,200 Dalton (protein component excluding glycosylation).

**Calculated isoelectric point:**

pH 8.4

**Immunological tests/Functionality:**

Standard ELISA test (checkerboard analysis of positive/negative sera panels, including a reference calibrator).

**Recommended buffer/storage and handling conditions:**

Recommendations for storage buffer: ionic strength around 200 mM, neutral to slightly alkaline pH and 20% glycerol as cryoprotective agent. Storage conditions -70°C or below. Repeated freeze/thaw cycles should be avoided. Use of reducing sulfhydryl reagents and denaturing detergents will result in the destruction of conformational epitopes.

**Coating concentration:**

0.5-1.0 µg/ml (depending on the type of ELISA plate and coating buffer). Suitable for labeling of functional groups. Due to the diversity of existing β2-glycoprotein 1/ApoH coating protocols (e.g. binding to phospholipid-precoated plates) further recommendations cannot be given.

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