

Recombinant Human β 2 Glycoprotein I (Apolipoprotein H)

Antigen Specification

Product Number: 14900

Description:

Human β 2 Glycoprotein I (β 2 GP I), also known as Apolipoprotein H or Apo H. Recombinant antigen for solid (ELISA) and fluid phase diagnostic assays.

Immunological function:

Binds IgG, IgA and IgM-type human auto-antibodies. Auto-antibodies to β 2 glycoprotein I 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 β 2 glycoprotein I fused to a hexa-histidine purification tag. After cleavage of the secretory leader pre-sequence the sequence corresponding to the mature recombinant β 2 glycoprotein I 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 (checker-board 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 temperature: -70° to -80° C. 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 μ g/ml (depending on the type of ELISA plate and coating buffer). Suitable for biotinylation and iodination.

Due to the diversity of existing β 2 glycoprotein I / ApoH coating protocols (e.g. binding to phospholipid-precoated plates) further recommendations cannot be given.

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