

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 in vitro research and manufacturing use 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 anti-ApoH antibody; ii: monoclonal anti-His-tag antibody.

Calculated molecular weight:

38 kDa (protein component excluding glycosylation).

Calculated isoelectric point:

pH 8.4

Immunological tests/Functionality:

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

Recommended buffer/storage and handling conditions:

Recommendations for storage buffer: 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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