

Recombinant Human APOH, His-tagged

Cat. No. APOH-80H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human $\beta 2$ Glycoprotein-I produced in <i>Sf9</i> is a glycosylated, polypeptide chain containing 326 amino acids and having a molecular mass of 38,200 Dalton (excluding glycosylation), 45 kDa total mass. 2GP-1 is expressed with a 6xHis tag and purified by proprietary chromatographic techniques.
Species	Human
Source	Sf9 Cells
Description	$\beta 2$ Glycoprotein I ($\beta 2$ 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 $\beta 2$ Glycoprotein I as a target of antiphospholipid antibodies in 1990 the discussion about the clinical relevance of $\beta 2$ GP I is still controversial. It is well established that anticardiolipin antibodies are a very heterogeneous group and that $\beta 2$ GP I is only one of several potential targets for anticardiolipin antibodies. Nevertheless it is generally accepted that the binding of $\beta 2$ 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).
Physical Appearance	Sterile Filtered clear solution (1mg/ml).
Purity	Greater than 90% as determined by SDS-PAGE.

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Formulation	2GP-1 is supplied in 16mM HEPES buffer pH-7.2, 200mM 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).
Applications	Western-Blot with monoclonal anti-hexa-His-tag antibody and Goodpasture patient sera.
Coating Concentration	0.5-1 μ g/ml (depending on the type of ELISA plate and coating buffer). Suitable for biotinylation and iodination.
Storage	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.

GENE INFORMATION

Gene Name	APOH apolipoprotein H (beta-2-glycoprotein I) [Homo sapiens]
Synonyms	APOH; apolipoprotein H (beta-2-glycoprotein I); BG; B2G1; beta-2-glycoprotein I; Beta(2)GPI; B2GPI; Apolipoprotein H; Activated protein C-binding protein; APC inhibitor; Anticardiolipin cofactor; Apo-H
Gene ID	350
mRNA Refseq	NM_000042
Protein Refseq	NP_000033
UniProt ID	P02749

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Chromosome Location	17q23-qter
MIM	138700
Function	eukaryotic cell surface binding; glycoprotein binding; heparin binding; lipoprotein lipase activator activity; phospholipid binding

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