



Beta-2-Glycoprotein 1 Antigen (DAG-T1240)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Purified from human plasma that has been tested and found to be negative for HIV, HCV and HBsAg antibodies. After coating onto ELISA plates the product will bind autoantibodies to β 2-glycoprotein 1.
Antigen Description	Apolipoprotein H (Apo-H), previously known as (β 2-glycoprotein I, beta-2 glycoprotein I), is a multifunctional apolipoprotein. One of its functions is to bind cardiolipin. When bound the structure of cardiolipin and Apo-H both undergo large changes in structure. Within the structure of Apo-H is a stretch of positively charged amino acids, (protein sequence positions 282-287) Lys-Asn-Lys-Glu-Lys-Lys, are involved in phospholipid binding (See image on right). Apo-H has a complex involvement in agglutination, it appears to alter ADP mediated agglutination of platelets. Normally Apo-H assumes an anti-coagulation activity in serum (by inhibiting coagulation factors), however changes in blood factors can result of a reversal of that activity.
Purity	The β 2-glycoprotein 1 autoantigen (54 kDa) is more than 95% pure, as assessed by SDS gel electrophoresis.
Concentration	0.5-2.0 mg/ml
Size	1.0 mg
Preservative	None
Storage	The product is stabilised with 20% glycerol and 0.1% Micr-O-protect TM. Store at -20°C or below (long term) or at +4°C (short term). Avoid repeated freezing and thawing. Mix thoroughly before use.

GENE INFORMATION

Gene Name	APOH apolipoprotein H (beta-2-glycoprotein I) [Homo sapiens]
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Official Symbol	APOH
Synonyms	APOH; apolipoprotein H (beta-2-glycoprotein I); B2G1; beta-2-glycoprotein 1; beta 2 glycoprotein I; BG; B2GPI; apo-H; beta(2)GPI; APC inhibitor; anticardiolipin cofactor; activated protein C-binding protein; B2GP1;
Entrez Gene ID	350
mRNA Refseq	NM_000042
Protein Refseq	NP_000033
UniProt ID	P02749
Chromosome Location	17q23-qter
Function	eukaryotic cell surface binding; glycoprotein binding; heparin binding; lipid binding; lipoprotein lipase activator activity; phospholipid binding; protein binding;
References	APOH; apolipoprotein H (beta-2-glycoprotein I); B2G1; beta-2-glycoprotein 1; beta 2 glycoprotein I; BG; B2GPI; apo-H; beta(2)GPI; APC inhibitor; anticardiolipin cofactor; activated protein C-binding protein; B2GP1; NP_000033; NM_000042; P02749; Activated protein C-binding protein; Anticardiolipin cofactor; Apo-H; Beta(2)GPI; Apolipoprotein H; Beta-2-glycoprotein I; HGNC: 616; Entrez Gene: 350; Ensembl: ENSG00000091583; OMIM: 138700; UniProtKB: P02749; APOH_HUMAN;
