Anti-human Apolipoprotein-H, Goat
Affinity-Purified IgG, 0.50 mg

Reference Number: 5D-11108G
Lot Number: xxxxxx
Expiration Date: xxxx-xx

For Research Use Only
Not for Use in Diagnostic Procedures
For in vitro Use Only

Immunogen:	Human β2GPI (from plasma)		
Format:	Affinity Purified IgG in 10 mM HEPES / 150 mM NaCl / 50% (v/v) glycerol / pH 7.2		
Host:	Goat		
Storage:	Store between -10 and -20°C. Vial should be tightly capped. Do not store in frost-free freezers. Allow product to warm to room temperature and gently mix before use.		
Total Protein:	0.50 mg		
Volume:	1 vial containing 0.25 mL anti-human, affinity purified IgG		
Concentration:	2 mg/mL affinity purified IgG by absorbance; Extinction Coefficient E1%280 = 13.4		
Specificity:	Specificity demonstrated by immunoelectrophoresis and ELISA methods.		
Species Cross Reactivity:	Dog: n.a.	Human: ++	Mouse: n.a.
	Pig: n.a.	Rabbit: n.a.	Rat: n.a.
Application:	Suitable as a source of enriched antibodies For Research Use Only. Not for Use in Diagnostic Procedures. For in vitro use only.		

Human Apolipoprotein-H, also known as β2-Glycoprotein I (β2GPI), is a plasma glycoprotein that circulates at a concentration of 200 ug/ml (4 uM). Synthesized in the liver, β2GPI is a single chain molecule of 48 kDa, consisting of five repeating internally disulphide-bonded structures. Relative to other glycoproteins, β2GPI has an unusually high content of cysteine (6.2%), proline (8.3%) and carbohydrate (19%). Almost half the circulating β2GPI in plasma is associated with lipoproteins of all major fractions. β2GPI has been demonstrated to bind negatively charged phospholipids, heparin and platelets. Although the precise function(s) are as yet unknown, β2GPI has been demonstrated to interfere with blood coagulation by competitively binding to negatively charged phospholipid surfaces exposed during cell activation or damage. Recent evidence also implicates β2GPI as a cofactor recognized by anti-phospholipid antibodies present in some autoimmune disorders such as systemic lupus erythematosus (SLE).

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V3 Revision Date 20210428