

****REPRESENTATIVE DATASHEET****
Goat anti-human Apolipoprotein-H (β_2 GPI)

Whole IgG from antiserum

5 mg

Product #: GAB2G-IG

Lot #: XXXX

Expiry date: XXXX

Store at -10 to -20°C

 1348 Sandhill Drive. Ancaster, Ontario, Canada L9G 4V5
 905-304-9896 • 800-903-6020 • fax 905-304-9897

For Research Use Only.

Not for use in diagnostic procedures.

Description of apolipoprotein-H (β_2 GPI)

Apolipoprotein-H, also known as β_2 -Glycoprotein I (β_2 GPI), is a plasma glycoprotein that circulates at a concentration of 200 ug/ml (4 μ M). Synthesized in the liver, β_2 GPI is a single chain molecule of 48 kDa, consisting of five repeating internally disulphide-bonded structures referred to as sushi domains. Relative to other glycoproteins, β_2 GPI has an unusually high content of cysteine (6.2%), proline (8.3%) and carbohydrate (19%). Almost half the circulating β_2 GPI in plasma is associated with lipoproteins of all major fractions. β_2 GPI has been demonstrated to bind negatively charged phospholipids, heparin and platelets. Although the precise function(s) are as yet unknown, β_2 GPI 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 β_2 GPI as a cofactor recognized by anti-phospholipid antibodies present in some autoimmune disorders such as systemic lupus erythematosus (SLE)¹⁻³.

REFERENCES and REVIEWS

- Lee, NS, Brewer HB Jr., Osborne JC Jr.; β_2 Glycoprotein I: Molecular Properties of an Unusual Apolipoprotein, Apolipoprotein H; JBC 258, pp 4765-4770, 1983.
- Schousboe I; β_2 Glycoprotein I: A Plasma Inhibitor of the Contact Activation of the Intrinsic Blood Coagulation Pathway. Blood 66, pp 1086-1091, 1985.
- Nimpf J, Bevers EM, Bomans PHH, Till U, Wurm H, Kostner GM, Zwaal RFA; Prothrombinase activity of human platelets is inhibited by β_2 Glycoprotein I; Biochimica et Biophysica Acta 884, pp 142-149, 1986.

Product Specifications
Description:

Vial containing XXXX ml of whole IgG representing approximately 1 ml of antiserum. Total protein is 5 mg.

Format:

Whole IgG, clear liquid.

Host Animal:

Goat

Immunogen:

 Human β_2 GPI purified from plasma.

Concentration:

 IgG concentration is XXXX mg/ml, determined by absorbance using an extinction coefficient ($E_{1\%}^{1\text{cm}}$) of 13.4.

Buffer:

10 mM HEPES, pH 7.4, 150 mM NaCl, 50% (v/v) glycerol.

Storage:

Store between -10 and -20°C. Product will become viscous but will not freeze. Avoid storage in frost-free freezers. Keep vial tightly capped. Allow product to warm to room temperature and gently mix before use.

Specificity:

 This antibody is specific for β_2 GPI as demonstrated by immunoelectrophoresis and ELISA.

Applications:

 Suitable as a source of antibodies to human β_2 GPI.

Neutralizing activity:

Not determined

Species Cross Reactivity: (immunodiffusion vs. citrated plasma)

| | | | | | |
|---------|------|--------|------|------|------|
| Human: | XXXX | Mouse: | XXXX | Rat: | XXXX |
| Rabbit: | XXXX | Pig: | XXXX | Dog: | XXXX |

Related Products:

Cat #: **GAB2G-AP** Goat anti-human β_2 GPI, affinity purified IgG
 Cat #: **GAB2G-HRP** Goat anti-human β_2 GPI, IgG-peroxidase conjugate
 Cat #: **APOH-EIA** Paired antibody set for ELISA of β_2 GPI, 5 x 96 wells
 Cat #: **APOH-DP** Human plasma deficient in β_2 GPI, immune depleted
 Cat #: **APOH-LDP** Lyophilized Human plasma deficient in β_2 GPI, immune depleted

 Visit our site (www.affinitybiologicals.com) for details.

Limited Warranty: This product is warranted to perform in accordance with its labeling and literature. Affinity Biologicals Inc. disclaims any implied warranty of merchantability or fitness for any other purposes, and in no event will Affinity Biologicals Inc. be liable for any consequential damages arising out of aforesaid express warranty.

Manufactured in Canada by:
AFFINITY BIOLOGICALS INC.
 1348 Sandhill Drive
 Ancaster ON CANADA L9G 4V5
 Tel: (905) 304-9896
 (800) 903-6020
 Fax: (905) 304-9897
info@affinitybiologicals.com