

# A1BG (D-17): sc-101879

## BACKGROUND

A1BG ( $\alpha$  1B-glycoprotein), also known as A1B, ABG, GAB or HYST2477, is a 495 amino acid secreted glycoprotein that contains 5 immunoglobulin (Ig)-like V-type domains and belongs to the immunoglobulin superfamily. At an average concentration of 22mg/dl, A1BG is expressed in normal adult plasma and is thought to be involved in the regulation of cell behavior and cell recognition. In plasma, A1BG specifically binds to human CRISP-3, a member of the cysteine-rich secretory protein (CRISP) family comprised of evolutionarily conserved proteins which are believed to play a role in the innate immune system. Through its association with CRISP-3, A1BG is believed to function in protecting the body from the circulation of free CRISP-3, a circumstance with potentially harmful effects.

## REFERENCES

1. Ishioka, N., Takahashi, N. and Putnam, F.W. 1986. Amino acid sequence of human plasma  $\alpha$  1B-glycoprotein: homology to the immunoglobulin supergene family. Proc. Natl. Acad. Sci. USA 83: 2363-2367.
2. Gahne, B., Juneja, R.K. and Stratil, A. 1987. Genetic polymorphism of human plasma  $\alpha$  1B-glycoprotein: phenotyping by immunoblotting or by a simple method of 2-D electrophoresis. Hum. Genet. 76: 111-115.

## CHROMOSOMAL LOCATION

Genetic locus: A1BG (human) mapping to 19q13.43.

## SOURCE

A1BG (D-17) is a purified rabbit polyclonal antibody raised against A1BG of human origin.

## PRODUCT

Each vial contains 50  $\mu$ g IgG in 500  $\mu$ l PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

## APPLICATIONS

A1BG (D-17) is recommended for detection of A1BG of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for A1BG siRNA (h): sc-97518, A1BG shRNA Plasmid (h): sc-97518-SH and A1BG shRNA (h) Lentiviral Particles: sc-97518-V.

Molecular Weight of A1BG: 54 kDa.

Molecular Weight of A1BG deglycosylated: 68 kDa.

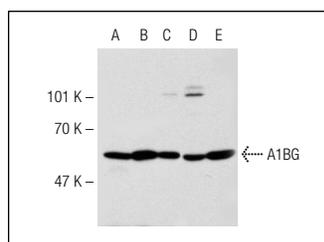
Molecular Weight of glycosylated A1BG: 74-80 kDa.

Positive Controls: MCF7 nuclear extract: sc-2149, HeLa nuclear extract: sc-2120 or Jurkat nuclear extract: sc-2132.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



A1BG (D-17): sc-101879. Western blot analysis of A1BG expression in Hep G2 (A), HeLa (B), MCF7 (C), Jurkat (D) and SK-BR-3 (E) nuclear extracts.

## SELECT PRODUCT CITATIONS

1. Gay, M., Pares, A., Carrascal, M., Bosch-i-Crespo, P., Gorga, M., Mas, A. and Abian, J. 2011. Proteomic analysis of polypeptides captured from blood during extracorporeal albumin dialysis in patients with cholestasis and resistant pruritus. PLoS ONE 6: e21850.

## STORAGE

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

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Try **A1BG (F-9): sc-374415** or **A1BG (51A6): sc-135661**, our highly recommended monoclonal alternatives to A1BG (D-17).