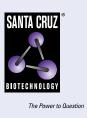
SANTA CRUZ BIOTECHNOLOGY, INC.

A1BG (F-9): sc-374415



BACKGROUND

A1BG (α_1 B-glycoprotein), also known as A1B, ABG, GAB or HYST2477, is a 495 amino acid secreted glycoprotein that contains five immunoglobulin (lg)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., et al. 1986. Amino acid sequence of human plasma α_1 B-glyco-protein: homology to the immunoglobulin supergene family. Proc. Natl. Acad. Sci. USA 83: 2363-2367.
- 2. Gahne, B., et al. 1987. Genetic polymorphism of human plasma α_1 B-glycoprotein: phenotyping by immunoblotting or by a simple method of 2-D electrophoresis. Hum. Genet. 76: 111-115.
- 3. Juneja, R.K., et al. 1988. Further studies of the plasma α_1 B-glycoprotein polymorphism: two new alleles and allele frequencies in Caucasians and in American blacks. Hum. Hered. 38: 267-272.
- 4. Eiberg, H., et al. 1989. Linkage between α_1 B-glycoprotein (A1BG) and Lutheran (LU) red blood group system: assignment to chromosome 19: new genetic variants of A1BG. Clin. Genet. 36: 415-418.
- 5. Juneja, R.K., et al. 1994. Distribution of plasma α_1 B-glycoprotein (A1BG) polymorphism in several populations of the Indian subcontinent. Ann. Hum. Biol. 21: 443-448.

CHROMOSOMAL LOCATION

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

SOURCE

A1BG (F-9) is a mouse monoclonal antibody raised against a peptide mapping within an internal region of A1BG of human origin.

PRODUCT

Each vial contains 200 μg lgG_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

A1BG (F-9) is available conjugated to agarose (sc-374415 AC), 500 µg/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-374415 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-374415 PE), fluorescein (sc-374415 FITC), Alexa Fluor[®] 488 (sc-374415 AF488), Alexa Fluor[®] 546 (sc-374415 AF546), Alexa Fluor[®] 594 (sc-374415 AF594) or Alexa Fluor[®] 647 (sc-374415 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-374415 AF680) or Alexa Fluor[®] 790 (sc-374415 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

A1BG (F-9) is recommended for detection of A1BG of human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) 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 deglycosylated A1BG: 68 kDa.

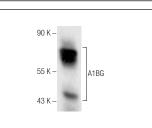
Molecular Weight of glycosylated A1BG: 74-80 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, human breast extract: sc-363753 or human liver extract: sc-363766.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker[™] Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz[®] Mounting Medium: sc-24941 or UltraCruz[®] Hard-set Mounting Medium: sc-359850.

DATA



A1BG (F-9): sc-374415. Western blot analysis of A1BG expression in Hep G2 whole cell lysate.

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 for detailed protocols and support products.