



A1BG (54B12): sc-135660

BACKGROUND

A1BG (α -1B-glycoprotein), also known as A1B, ABG, GAB or HYST2477, is a 495 amino acid secreted glycoprotein that contains five immunoglobulin (Ig)-like V-type domains and belongs to the immunoglobulin superfamily. At an average concentration of 22 mg/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.

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STORAGE

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

CHROMOSOMAL LOCATION

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

SOURCE

A1BG (54B12) is a mouse monoclonal antibody raised against purified A1BG from plasma of human origin.

PRODUCT

Each vial contains IgG₁ in 100 μ l of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

A1BG (54B12) is recommended for detection of A1BG of human origin by Western Blotting (starting dilution to be determined by researcher, dilution range 1:100-1:5000), immunoprecipitation [1-2 μ l per 100-500 μ g of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution to be determined by researcher, dilution range 1:30-1:5000).

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.

Positive Controls: Hep G2 cell lysate: sc-2227.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-mouse IgG-HRP: sc-2005 (dilution range: 1:2000-1:32,000) or Cruz Marker™ compatible goat anti-mouse IgG-HRP: sc-2031 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

RESEARCH USE

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