

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human α 1B-Glycoprotein in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Human embryonic kidney cell line HEK293-derived recombinant human α 1B-Glycoprotein Ala22-Ser495 Accession # EAW72575
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

A1BG (alpha-1 B/beta-glycoprotein; also C44 [in rodent]) is a 68-80 kDa monomeric plasma glycoprotein member of the Immunoglobulin superfamily of molecules. It is expressed by multiple cell types, principally hepatocytes in response to circulating growth hormone. Initially thought to act as an MMP inhibitor, A1BG is now known to bind to CRISP3, a distant member of a family of venomous molecules. CRISP3 is widely expressed and possesses no toxic properties. But it may play a key role in fertilization, where it temporarily blocks the reaction of PMNs to sperm in the uterus, thus increasing sperm lifespan and the likelihood of fertilization. Within this context, A1BG may regulate CRISP3 availability. A1BG has also been investigated as a biomarker in various cancers. Mature human A1BG is 474 amino acids (aa) in length (aa 22-495) and contains five V-type Ig-like domains. There is one isoform variant that utilizes Met123 as an alternative start site. Full-length human A1BG (aa 22-495) shares only 44% aa sequence identity with mouse A1BG.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.