



Biotinylated Anti-human ZAG Antibody

ORDERING INFORMATION

Catalog Number: BAF4764

Lot Number: CAWU01

Size: 50 µg

Formulation: 0.2 µm filtered solution in PBS with BSA

Storage: -20° C

Reconstitution: sterile 0.1% BSA in TBS

Specificity: human ZAG

Immunogen: NS0-derived rhZAG

Ig Type: goat IgG

Application: Western blot

Background

ZAG (zinc- α_2 -glycoprotein; also ZA2G) is a 40 kDa, secreted member of the MHC class I family of proteins. It is produced by adipocytes and various epithelial cells that generate exocrine-type secretions. ZAG is reported to stimulate lipid breakdown and thus may play a role in lipid homeostasis. Mature human ZAG is 278 amino acids (aa) in length. It contains one MHC class I antigen region (aa 26 - 201) and a C2-type Ig-like domain (aa 207 - 292). Two alternate splice forms exist; one shows a 66 aa substitution for the C-terminal 30 aa, and a second shows a nine Lys substitution for aa 151 - 298. Mature human ZAG is 60% aa identical to mouse ZAG.

Preparation

Produced in goat immunized with purified, NS0-derived, recombinant human ZAG (rhZAG; aa 21 - 298; Accession # Q5XKQ4). Human ZAG specific IgG was purified by human ZAG affinity chromatography and then biotinylated.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) containing 50 µg of bovine serum albumin (BSA) per 1 µg of antibody.

Reconstitution

Reconstitute with sterile Tris-buffered saline pH 7.3 (20 mM Trizma base, 150 mM NaCl) containing 0.1% BSA. If 1 mL of buffer is used, the antibody concentration will be 50 µg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody has been selected for use as a detection antibody in human ZAG Western blots.

Application

Western blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human ZAG. The detection limit for rhZAG is approximately 10 ng/lane under non-reducing and reducing conditions.

Optimal dilutions should be determined by each laboratory for each application.