**BACKGROUND**

ZAG (Zn-α2-glycoprotein) is a soluble, secreted protein found in serum and other body fluids (such as cerebrospinal fluid, blood plasma, urine and sweat). ZAG has a tendency to precipitate with zinc salts, has electrophoretic mobility in the region of the two globulins, and has 18% carbohydrate content. A member of the immunoglobulin superfamily, ZAG has a high degree of sequence similarity to class-I major histocompatibility complex (MHC) antigens. The ZAG structure includes a large groove analogous to class I MHC peptide binding grooves. The crystal structure of ZAG resembles a class I MHC heavy chain but does not bind the class I light chain β2-Microglobulin, unlike other MHC related proteins. ZAG stimulates lipid degradation in adipocytes and its overexpression causes the extensive fat losses associated with some advanced cancers.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: AZGP1 (human) mapping to 7q22.1; Azgp1 (mouse) mapping to 5 G2.

**SOURCE**

ZAG (6G2) is a mouse monoclonal antibody raised against purified Zn-α2-glycoprotein (ZAG) of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**STORAGE**

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

**APPLICATIONS**

ZAG (6G2) is recommended for detection of ZAG of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for ZAG siRNA (h): sc-36865, ZAG siRNA (m): sc-36866, ZAG shRNA Plasmid (h): sc-36865-SH, ZAG shRNA Plasmid (m): sc-36866-SH, ZAG shRNA (h) Lentiviral Particles: sc-36865-V and ZAG shRNA (m) Lentiviral Particles: sc-36866-V.

Molecular Weight of ZAG: 47 kDa.

Positive Controls: ZAG (h): 293T Lysate: sc-114991, mouse spleen extract: sc-2391 or human spleen extract: sc-363779.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:


**DATA**

![Western blot analysis of ZAG expression in non-transfected: sc-117752 (A) and human ZAG transfected: sc-114991 (B) 293T whole cell lysates.](image1)

**PRODUCT CITATIONS**


**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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