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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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ZAG (m): 293T Lysate: sc-124693

BACKGROUND

ZAG (Zn- α 2-glycoprotein, also designated Zn- α 2-gp) 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 β -2-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

- Jirka, M. and Blanicky, P. 1973. Zn- α 2-glycoprotein in sweat. *Cas. Lek. Cesk.* 112: 1606-1608.
- Ekman, R., et al. 1976. Renal handling of Zn- α 2-glycoprotein as compared with that of Albumin and the retinol-binding protein. *J. Clin. Invest.* 57: 945-954.
- Shibata, S. and Miura, K. 1982. Nephritogenic glycoprotein. IX. Plasma Zn- α 2-glycoprotein as a second source of nephritogenic glycoprotein in urine. *Nephron* 31: 170-176.
- Uria, J.A., et al. 1996. Alternative splicing gives rise to two novel long isoforms of Zn- α 2-glycoprotein, a member of the immunoglobulin superfamily. *Gene* 169: 233-236.
- Sanchez, L.M., et al. 1997. Biochemical characterization and crystalization of human Zn- α 2-glycoprotein, a soluble class I major histocompatibility complex homolog. *Proc. Natl. Acad. Sci. USA* 94: 4626-4630.
- Davidsson, P. and Nilsson, C.L. 1999. Peptide mapping of proteins in cerebrospinal fluid utilizing a rapid preparative two-dimensional electrophoretic procedure and matrix-assisted laser desorption/ionization mass spectrometry. *Biochim. Biophys. Acta* 1473: 391-399.

CHROMOSOMAL LOCATION

Genetic locus: Azgp1 (mouse) mapping to 5 G2.

PRODUCT

ZAG (m): 293T Lysate represents a lysate of mouse ZAG transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

STORAGE

Store at -20 $^{\circ}$ C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

APPLICATIONS

ZAG (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive ZAG antibodies. Recommended use: 10-20 μ l per lane.

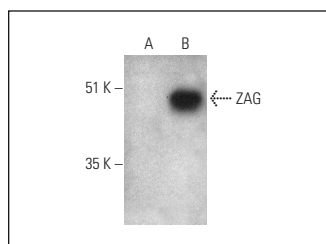
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

ZAG (F-6): sc-271957 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse ZAG expression in ZAG transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

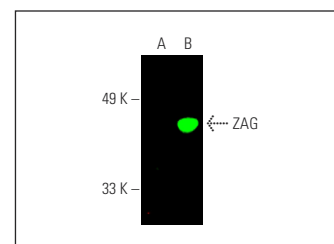
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG λ BP-HRP: sc-516132 or m-IgG λ BP-HRP (Cruz Marker): sc-516132-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



ZAG (F-6): sc-271957. Western blot analysis of ZAG expression in non-transfected: sc-117752 (A) and mouse ZAG transfected: sc-124693 (B) 293T whole cell lysates.



ZAG (F-6): sc-271957. Near-infrared western blot analysis of ZAG expression in non-transfected: sc-117752 (A) and mouse ZAG transfected: sc-124693 (B) 293T whole cell lysates. Blocked with UltraCruz[®] Blocking Reagent: sc-516214. Detection reagent used: m-IgG λ BP-CFL 680: sc-516194.

RESEARCH USE

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