Product Information

Material Number: 612354

Size: 50 µg

Concentration: 250 µg/ml

Clone: 35/Zn-α2-glycoprotein

Immunogen: Human Zn-α2-glycoprotein aa. 7-102

Isotype: Mouse IgG1

Reactivity: QC Testing: Human

Target MW: 41 kDa

Storage Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Zn-α2-glycoprotein (ZAG) is a soluble protein that was originally isolated from human plasma. ZAG is related to class I major histocompatibility complex (MHC) proteins, which are involved in peptide presentation to cytotoxic T-cells during immune surveillance. Besides plasma, ZAG is found in liver, as well as bodily fluids such as sweat, saliva, cerebrospinal fluid, seminal plasm, milk, amniotic fluid, and urine. In addition, ZAG is found in 40% of breast carcinomas, and in various tumor cells. In plasma, ZAG’s lipid binding ability may be important for lipid store homeostasis. Additional functions of ZAG may be involved in the regulation of cell proliferation. In vitro, ZAG has ribonuclease activity that is comparable to onconase and less than RNase A. ZAG may also regulate cell adhesion, since Tu-138 oral squamous cells can attach to a ZAG substratum. This attachment inhibits cell proliferation and may involve interaction with integrin α5β1 receptors. Thus, ZAG may be a multi-functional protein involved in lipid storage, cell adhesion, and cell differentiation.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at -20°C.

Application Notes

Application

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<tr>
<th>Western blot</th>
<th>Routinely Tested</th>
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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
References

Kennedy MW, Heikema AP, Cooper A, Bjorkman PJ, Sanchez LM. Hydrophobic ligand binding by Zn-alpha 2-glycoprotein, a soluble fat-depleting factor related to


