Human ZAG Antibody

Monoclonal Mouse IgG_1 Clone # 842025

Catalog Number: MAB4764

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ZAG in ELISAs.
Source	Monoclonal Mouse IgG_1 Clone # 842025
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human ZAG Met1-Ser298 Accession # P25311
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

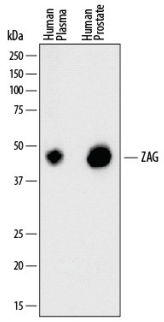
APPLICATIONS

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.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Simple Western	10 µg/mL	See Below

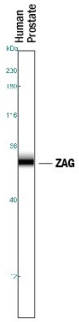
DATA

Western Blot



Detection of Human ZAG by Western Blot. Western blot shows human plasma and lysates of human prostate tissue. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human ZAG Monoclonal Antibody (Catalog # MAB4764) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for ZAG at approximately 41 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Simple Western



Detection of Human ZAG by Simple Western™. Simple Western lane view shows lysates of human prostate tissue, loaded at 0.2 mg/mL. A specific band was detected for ZAG at approximately 59 kDa (as indicated) using 10 µg/mL of Mouse Anti-Human ZAG Monoclonal Antibody (Catalog # MAB4764). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.

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