Human ZAG Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF4764

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ZAG in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human ZAG Gln21-Ser298 Accession # Q5XKQ4
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 as a 0.2 µm filtered solution in PBS.

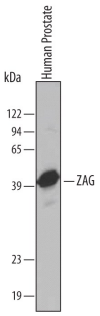
APPLICATIONS

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
Immunocytochemistry	5-15 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	See Below

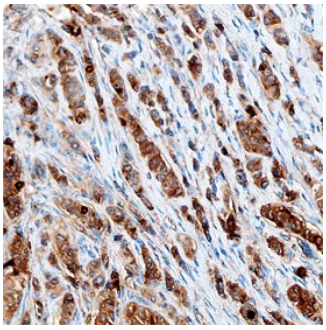
DATA

Western Blot



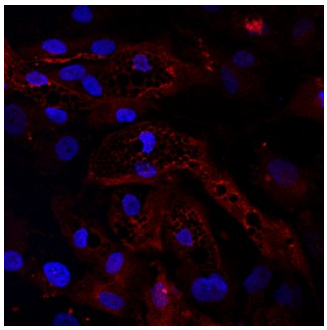
Detection of Human ZAG by Western Blot. Western blot shows lysates of human prostate tissue. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human ZAG Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4764) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for ZAG at approximately 40 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

Immunohistochemistry



ZAG in Human Breast Cancer Tissue. ZAG was detected in immersion fixed paraffin-embedded sections of human breast cancer tissue using Goat Anti-Human ZAG Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4764) at 10 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific staining was localized to epithelial cells. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

Immunocytochemistry



ZAG in Human Mesenchymal Stem Cells. ZAG was detected in immersion fixed human mesenchymal stem cells differentiated into adipocytes using Goat Anti-Human ZAG Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4764) at 10 µg/mL for 3 hours at room temperature. Cells were differentiated using using StemXVivo Osteogenic/Adipogenic Base Media (Catalog # CCM007) and StemXVivo Adipogenic Supplement (100X) (Catalog # CCM011). Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Stem Cells on Coverslips.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
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.

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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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