

#### DESCRIPTION

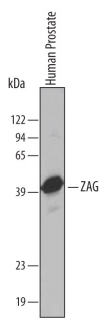
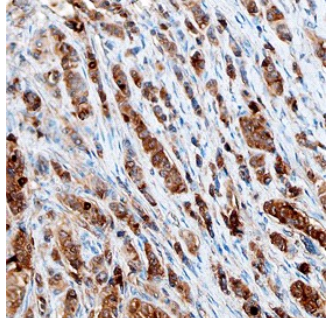
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human ZAG in direct ELISAs and Western blots.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human ZAG Gln21-Ser298 Accession # Q5XKQ4
<b>Formulation</b>	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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	1 µg/mL	See Below
<b>Immunohistochemistry</b>	5-15 µg/mL	See Below

#### DATA

<p><b>Western Blot</b></p>  <p><b>Detection of Human ZAG by Western Blot.</b> 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.</p>	<p><b>Immunohistochemistry</b></p>  <p><b>ZAG in Human Breast Cancer Tissue.</b> 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 &amp; Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific staining was localized to epithelial cells. View our protocol for <a href="#">Chromogenic IHC Staining of Paraffin-embedded Tissue Sections</a>.</p>
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#### PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

#### BACKGROUND

ZAG (zinc- $\alpha_2$ -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.