# Human Pregnancy Zone Protein/PZP Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF8280

## DESCRIPTION

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| **Species Reactivity** | Human |
| **Specificity** | Detects human Pregnancy Zone Protein/PZP in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human A2ML1 is observed. |
| **Source** | Polyclonal Goat IgG |
| **Purification** | Antigen Affinity-purified |
| **Immunogen** | Human embryonic kidney cell line HEK293-derived recombinant human Pregnancy Zone Protein/PZP<br>Thr26-Val1482<br>Accession # P20742 |
| **Formulation** | Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.<br>*Small pack size (-SP) is supplied as a 0.2 μm filtered solution in PBS. |

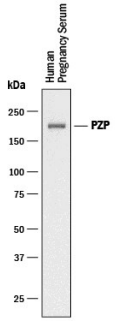
## APPLICATIONS

**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** | 0.25 µg/mL | See Below |

## DATA

**Western Blot**




**Detection of Human Pregnancy Zone Protein/PZP by Western Blot.** Western blot shows human pregnancy serum. PVDF membrane was probed with 0.25 µg/mL of Goat Anti-Human Pregnancy Zone Protein/PZP Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8280) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band was detected for Pregnancy Zone Protein/PZP at approximately 180 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

## PREPARATION AND STORAGE

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| **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.<br>*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.**<br>● 12 months from date of receipt, -20 to -70 °C as supplied.<br>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.<br>● 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

## BACKGROUND

Pregnancy zone protein (PZP, C3 and PZP-like alpha-2-macroglobulin domain-containing protein 6) is a 360 kDa secreted homodimeric glycoprotein, PZP monomer contains a region of decisive functional importance i.e. the bait region. This region serves as a substrate to a variety of proteinases, and cleavage in this domain causes a conformational change of the molecule. Human PZP is a member of the protease inhibitor I39 (alpha-2-macroglobulin) family of proteins. Highest expression of human PZP is reported in liver, medium expression in ovary, heart and stomach. Also this protein is found in plasma. Over aa 26-1482, human PZP is 56% aa identical to mouse PZP.



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