Pregnancy associated plasma protein-A2 (PAPP-A2) is a novel metalloproteinase identified as a homolog of PAPP-A in the metzincin superfamily of pappalysins. PAPP-A2 shares 46% sequence identity with PAPP-A. PAPP-A2 is a noncovalently linked dimer of two 220-kDa subunits. It exhibits robust proteolytic activity against IGFBP-5 and possibly also IGFBP-3. PAPP-A2 is expressed in a wide range of tissues and is abundant in placental syncytiotrophoblasts and the pregnant uterus.

Ansh Labs Advantage

Standardized recombinant human PAPP-A2 calibrators
Highly specific antibodies
does not detect proMBP, dimeric PAPP-A, or PAPP-A-proMBP complex
Analytical measurable range of approximately 0.09—9.4 ng/mL
Sensitive to 0.071 ng/mL
Total 2.5 hour incubation at room temperature
same day results, simple automatable procedure
Long shelf-life
minimizing lot changes ensures long-term consistency and precision of results

Specific

The antibody pair used in the PAPP-A2 ELISA measures PAPP-A2 and does not detect dimeric PAPP-A, PAPP-A proMBP complex, proMBP, and MMP-9.

Accurate

Standardized recombinant human PAPP-A, or PAPP-A-proMBP complex

Reliable

Reproducibility of the PAPP-A2 ELISA assay was determined in a study using four serum pools. The study included a total of 12 assays, four replicates of each per assay (n=48). Representative data were calculated based on NCCLS EP5-A guidelines and are presented to the right.
PAPP-A2 is a useful research tool in Reproductive Endocrinology studies related to:

- Preeclampsia
- IGF-regulation disorders
- Bone metabolism
- Lung cancer

**ELISA 96 Wells**

- Method: Quantitative three-step sandwich type immunoassay
- Incubation Time: Total 2.5 hour incubation at room temperature
- Approximate Dynamic Range: 6 points, 0.09 - 9.4 ng/mL
- Sensitivity: 0.071 ng/mL
- Sample Size / Type: 50 μL / Serum
- Shelf-life: 24 months

**Ordering Information**

PAPP-A2  96-Well ELISA  AL-109*

Ansh Labs is ISO 13485 certified for design, development, manufacturing, services and distribution of reagents/immunoassay kits for research and in vitro diagnostic applications.

Additionally, we have proteins and many monoclonal antibodies to PAPP-A2, AMH, Inhibin B and other hormones in the TGF-beta superfamily.

**Call us today or visit AnshLabs.com to see what’s new in our lab.**

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*Unless otherwise stated in our catalog or other product documentation, these kits are intended for research use only and not for in vitro diagnostic purposes or therapeutic uses.

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