

# picoPAPP-A

Enzyme-Linked Immunoassay Kit



**Introduction:** Pregnancy-associated plasma protein A (PAPP-A) is a large placenta-derived glycoprotein. During pregnancy it is produced in high concentrations by the trophoblast and released into maternal circulation. In addition to trophoblasts, PAPP-A expression has been reported in various tissues, including endometrium, testis, atherosclerotic arteries, kidney, bone, colon, and other adult and fetal tissue. PAPP-A is potentially proatherosclerotic and has been proposed as a new marker of inflammation, as high serum PAPP-A levels are observed in patients with renal impairment, asthma, lung cancer, unstable angina, etc. Studies suggest that the PAPP-A form in non-pregnant females and males is dimeric and is not complexed with proMBP and proteolyses IGFBP-4 and IGFBP-5.

picoPAPP A is useful in detection at low concentrations for studies of non-pregnant physiological states, pregnancy, dysfunctions of placental formation, certain cancers, and cardiovascular disease.

## ANSH LABS ADVANTAGES

### Accurate

Data presented in Table testifies the reliability of the assay.

Sample	Dilution Factor	Expected Conc. (ng/mL)	Observed Conc. (ng/mL)	% Recovery
1	Neat	407.4	NA	NA
	1:2	203.7	182.6	90%
	1:4	101.8	92.8	91%
	1:8	50.9	45.0	88%
2	Neat	256.9	NA	NA
	1:2	128.4	113.0	88%
	1:4	64.2	58.6	91%
	1:8	32.1	34.1	106%
Calibrator F	Neat	425	NA	NA
	1:2	212.5	213.3	100%
	1:4	106.3	108.0	102%
	1:8	53.1	54.7	103%
	1:12	26.6	24.5	92%

Calibrators are prepared using dimeric PAPP-A and calibrated to WHO (78/610) preparation

Analytical measurable range of approximately 0.1-10 ng/mL  
Wide dynamic range for detection of Progucagon studies of a variety of physiological states.

Sensitive to 0.037 ng/mL

Long shelf-life

Minimizing lot changes ensures long-term consistency and precision of results

### Specific

The antibody pair used in the picoPAPP-A ELISA measures dimeric recombinant PAPP-A and PAPP-A/proMBP complex in equimolar concentration and does not cross react to PAPP-A2, MMP-9, and proMBP.

### Reliable

Reproducibility of the picoPAPP-A ELISA was determined on three serum pools. Serum pools were run in replicates of four per assay and twelve runs (n=48).

Sample	Mean Conc.	Within Run		Between Run		Total	
	(ng/mL)	SD	%CV	SD	%CV	SD	%CV
Pool 1	0.973	0.016	1.63%	0.002	0.22%	0.017	1.7%
Pool 2	1.553	0.028	1.82%	0.020	1.27%	0.034	2.21%
Pool 3	3.190	0.078	2.45%	0.012	0.39%	0.079	2.48%

picoPAPP-A is a useful research tool in studies related to:

- Asthma
- Lung Cancer
- Inflammation
- Unstable Angina
- Renal Impairment

## ELISA 96 Wells

Method	Quantitative 2-step sandwich type immunoassay
Incubation Time	Total 3 hour incubation at room temperature
Approximate Dynamic Range	6 points, 0.1-10 ng/mL
Sensitivity	0.037 ng/mL
Sample Size / Type	50 µL / Serum
Shelf-life	24 months
Catalog Number	AL-101

## Related Assays

PAPP-A	96-Well ELISA	AL-106
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Ansh Labs is trusted by the top global pharma companies, scientists and researchers for highly-specific and well-characterized monoclonal antibodies. We offer numerous antibodies for PAPP-A including the extremely popular PAPP-A clone 1/41 neutralizing antibody.

\*Unless otherwise stated here, 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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### Reproductive Function

Activin A [CE]  
 Activin B  
 Activin AB  
 AFP  
 AMH [CE]  
 AMH, Dried Blood Spot [CE]  
 AMH (PCOCheck™) [CE]  
 picoAMH (MenoCheck®) [FDA, CE]  
 BMP-15  
 Estriol [FDA, CE]  
 Follistatin  
 Follistatin Like-3  
 FSH  
 FSH, Dried Blood Spot  
 GDF-9  
 GDF-9/BMP-15 Complex  
 GDF-15, Total  
 GDF-15, H-Specific  
 Inhibin, Total  
 Inhibin A [FDA, CE]  
 picoinhibin A  
 Inhibin A (OMQCheck™)  
 Inhibin B [CE]  
 Inhibin B, Ultra-Sensitive [CE]  
 LH  
 LH, Dried Blood Spot  
 PAPP-A [CE]  
 PAPP-A2 [CE]  
 picoPAPP-A [CE]  
 PLGF [CE]  
 Prolactin [FDA, CE]  
 Prolactin, Dried Blood Spot [CE]

### Specialty Controls

AnshCheck AMH Tri-Level Controls [FDA, CE]  
 AnshCheck Inhibin B Tri-Level Controls  
 AnshCheck Maternal Screening Bi-Level Controls [FDA, CE]

### Metabolism

C-Peptide of Insulin  
 GIP, Intact  
 GIP, Total  
 Glucagon  
 GLP-1  
 GLP-2  
 Glucagon [FDA, CE]  
 Major Proglucagon Fragment  
 Oxyntomodulin  
 Proglucagon

### Growth Factors

IGF-I, Free  
 IGF-I, Total [FDA, CE]  
 IGF-II  
 IGFBP-2  
 IGFBP-3, Intact  
 IGFBP-3, Total  
 IGFBP-4, Intact  
 IGFBP-4, Total  
 IGFBP-5  
 picolL-6  
 Stanniocalcin 2

### Species Specific Assays

Activin B: Mouse, Rat  
 AMH: Bovine, Canine, Equine, Feline, Mouse, Ovine, Porcine, Primate, Rat  
 GDF-15: Bovine  
 IGF-I, Free: Mouse, Rat  
 IGF-I, Total: Mouse, Rat  
 IGFBP-4, Intact : Mouse, Rat  
 IGFBP-4, Total: Mouse, Rat  
 Inhibin A: Canine, Equine, Rodent  
 Inhibin B: Canine, Equine, Mouse  
 Oxyntomodulin: Mouse, Rat  
 PAPP-A: Mouse

### Neuronal Disorders

MBP

\*\*Unless stated otherwise, products are for research use only.

### Customer Relations

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ISO 13485:2016

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