

PAPP A2 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP59420**Specification****PAPP A2 Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q9BXP8
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	173 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PAPP A2
Epitope Specificity	701-800/1791
Isotype	IgG
Purity	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Secreted.
SIMILARITY	Belongs to the peptidase M43B family. Contains 5 Sushi (CCP/SCR) domains.
SUBUNIT	Monomer.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

Pregnancy-associated plasma protein-A (Pappalysin-1 or PAPP-A), also known as Insulin-like growth factor-dependent IGF-binding protein 4 (IGFBP4) protease, is a member of the peptidase M43B family of proteins. PAPP-A, a metalloproteinase, cleaves Insulin-like growth factor binding proteins IGFBP4 and IGFBP5, releasing bound IGF. PAPP-A is primarily expressed in septa and anchoring villi in placenta and is also expressed in pregnancy serum. Levels of PAPP-A increase throughout pregnancy. Lower levels of expression can be detected in kidney, prostate, breast, ovary and endometrial tissues. PAPP-A is a secreted protein that can form homodimers; in pregnancy serum PAPP-A may also form a heterotetramer with PRG-2.

PAPP A2 Polyclonal Antibody - Additional Information**Gene ID** 60676**Other Names**

Pappalysin-2, 3.4.24.-, Pregnancy-associated plasma protein A2, PAPP-A2, Pregnancy-associated plasma protein E1, PAPP-E, PAPPA2, PLAC3

Target/Specificity

Expressed abundantly in placenta, and non-pregnant mammary gland with low expression in the

kidney, fetal brain and pancreas.

Dilution

WB~~1:1000<br \>IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>E~~N/A

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

PAPP A2 Polyclonal Antibody - Protein Information

Name PAPPA2

Synonyms PLAC3

Function

Metalloproteinase which specifically cleaves insulin-like growth factor binding protein (IGFBP)-5 at the '163-Ser-[Lys-164' bond. Shows limited proteolysis toward IGFBP-3.

Cellular Location

Secreted.

Tissue Location

Expressed abundantly in placenta, and non-pregnant mammary gland with low expression in the kidney, fetal brain and pancreas.

PAPP A2 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PAPP A2 Polyclonal Antibody - Images