

Anti-PAPP A Picoband Antibody
Catalog # ABO11997**Specification**

Anti-PAPP A Picoband Antibody - Product Information

Application	WB, IHC
Primary Accession	Q13219
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Pappalysin-1(PAPPA) detection. Tested with WB, IHC-P in Human.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-PAPP A Picoband Antibody - Additional Information

Gene ID 5069

Other Names

Pappalysin-1, 3.4.24.79, Insulin-like growth factor-dependent IGF-binding protein 4 protease, IGF-dependent IGFBP-4 protease, IGFBP-4ase, Pregnancy-associated plasma protein A, PAPP-A, PAPPA

Calculated MW

180973 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat
Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization

Secreted .

Tissue Specificity

High levels in placenta and pregnancy serum. In placenta, expressed in X cells in septa and anchoring villi, and in syncytiotrophoblasts in the chorionic villi. Lower levels are found in a variety of other tissues including kidney, myometrium, endometrium, ovaries, breast, prostate, bone marrow, colon, fibroblasts and osteoblasts. .

Protein Name

Pappalysin-1

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

Immunogen

E.coli-derived human PAPP A recombinant protein (Position: R95-Q388). Human PAPP A shares 88% amino acid (aa) sequence identity with mouse PAPP A.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the peptidase M43B family.

Anti-PAPP A Picoband Antibody - Protein Information

Name PAPPA

Function

Metalloproteinase which specifically cleaves IGFBP-4 and IGFBP-5, resulting in release of bound IGF. Cleavage of IGFBP-4 is dramatically enhanced by the presence of IGF, whereas cleavage of IGFBP-5 is slightly inhibited by the presence of IGF.

Cellular Location

Secreted.

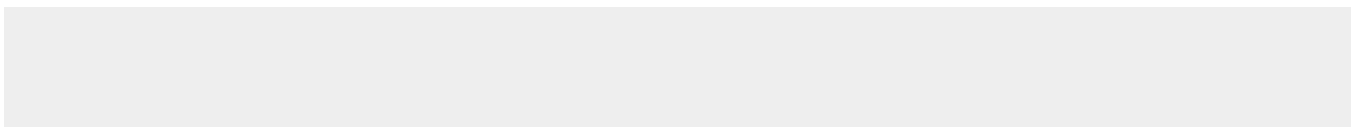
Tissue Location

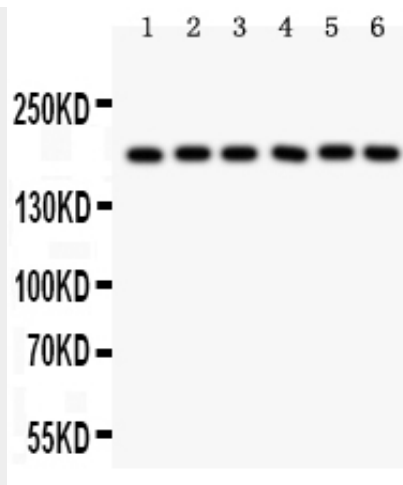
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Anti-PAPP A Picoband Antibody - Protocols

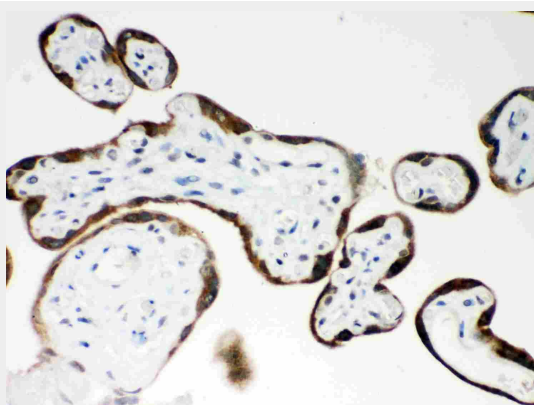
Provided below are standard protocols that you may find useful for product applications.

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

Anti-PAPP A Picoband Antibody - Images



Anti- PAPP A Picoband antibody, ABO11997, Western blotting All lanes: Anti PAPP A (ABO11997) at 0.5ug/ml
Lane 1: Human Placenta Tissue Lysate at 50ug
Lane 2: HT1080 Whole Cell Lysate at 40ug
Lane 3: SKOV Whole Cell Lysate at 40ug
Lane 4: 22RV1 Whole Cell Lysate at 40ug
Lane 5: SW620 Whole Cell Lysate at 40ug
Lane 6: MM231 Whole Cell Lysate at 40ug
Predicted bind size: 181KD
Observed bind size: 181KD



Anti- PAPP A Picoband antibody, ABO11997, IHC(P) IHC(P): Human Placenta Tissue

Anti-PAPP A Picoband Antibody - Background

Pappalysin-1, also known as DIPLA1, is a protein that in humans is encoded by the PAPP A gene. It is mapped to 9q33.1. PAPP A is found in the ovarian follicles, follicular fluid, luteal cells, and fallopian tubes of nonpregnant women and in the seminal vesicles and seminal fluid of males. This gene encodes a secreted metalloproteinase which cleaves insulin-like growth factor binding proteins (IGFBPs). It is thought to be involved in local proliferative processes such as wound healing and bone remodeling. Low plasma level of this protein has been suggested as a biochemical marker for pregnancies with aneuploid fetuses. It has been found that circulating PAPP A is a disulfide-bridged complex with proMBP in which the subunits of the constituents are present in a 1:1 molar ratio.