

Anti-PAPP A Picoband Antibody

Catalog # ABO11997

Product Information

Application	WB, IHC-P
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.

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
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, By Heat Western blot, 0.1-0.5 μ g/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. .
Source	Eukaryota
Protein Name	Pappalysin-1
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
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 r° Constitution, 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.

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	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.

Background

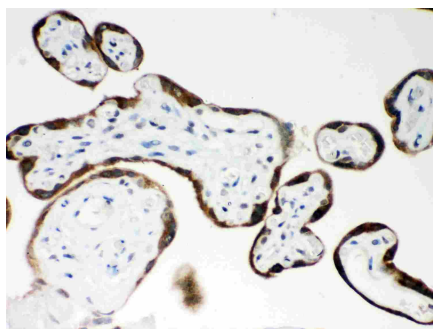
Pappalysin-1, also known as DIPLA1, is a protein that in humans is encoded by the PAPPA gene. It is mapped to 9q33.1. PAPPA is found in the ovarian follicles, follicular fluid, luteal cells, and fallopian tubes of nonpregnant women and in the seminal vesicles and seminal fluid of males. This gene encodes 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 PAPPA is a disulfide-bridged complex with proMBP in which the subunits of the constituents are present in a 1:1 molar ratio.

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



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