

Basic Information

Product Name	Anti-PAPPA Antibody	
Gene Name	PAPPA	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC	
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.	
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.	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	181 kDa	
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

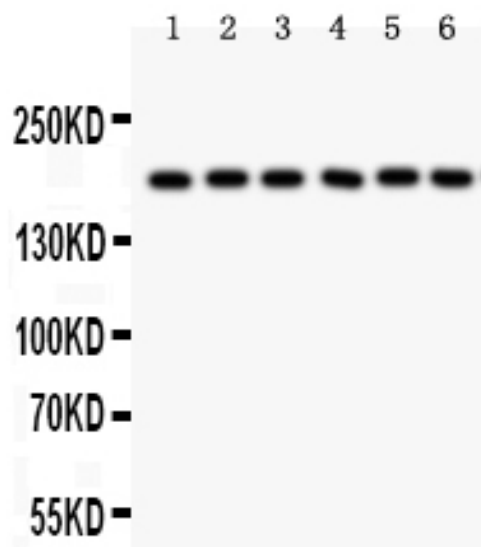
Background Information

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.

Reference

Anti-PAPPA Antibody被引用在1文献中。

Selected Validation Data



Western blot analysis of PAPPA using anti-PAPPA antibody (PB0340). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: Human Placenta tissue lysates,

Lane 2: HT1080 whole cell lysates,

Lane 3: SKOV whole cell lysates,

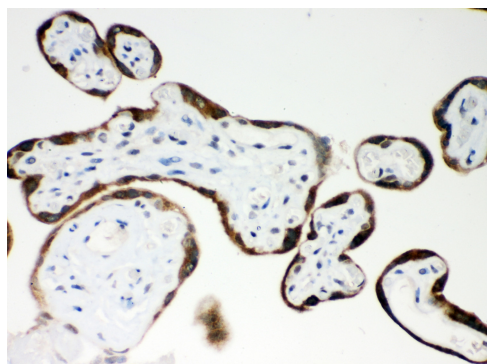
Lane 4: 22RV1 whole cell lysates,

Lane 5: SW620 whole cell lysates,

Lane 6: MM231 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-PAPPA antigen affinity purified polyclonal antibody (PB0340) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for PAPPA at approximately 181 kDa. The expected band size for PAPPA is at 181 kDa.



IHC analysis of PAPPA using anti-PAPPA antibody (PB0340).

PAPPA was detected in a paraffin-embedded section of human placenta tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-PAPPA Antibody (PB0340) at a dilution of 1:200 and developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.