

## PAPP1 Rabbit pAb

CatalogNo: YN2299

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse

#### Applications

- WB, ELISA

#### MW

- 178kD (Observed)

#### Isotype

- IgG

### Recommended Dilution Ratios

WB 1:500-2000

ELISA 1:5000-20000

### Storage

#### Storage\*

-15°C to -25°C/1 year (Do not lower than -25°C)

#### Formulation

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Basic Information

#### Clonality

Polyclonal

### Immunogen Information

#### Immunogen

Synthesized peptide derived from human protein . at AA range: 30-110

#### Specificity

PAPP1 Polyclonal Antibody detects endogenous levels of protein.

### Target Information

#### Gene name

PAPPA

<b>Protein Name</b>	Pappalysin-1 (Insulin-like growth factor-dependent IGF-binding protein 4 protease) (IGF-dependent IGFBP-4 protease) (IGFBP-4ase) (Pregnancy-associated plasma protein A) (PAPP-A)		
	<b>Organism</b>	<b>Gene ID</b>	<b>UniProt ID</b>
	Human	<a href="#">5069</a> ;	<a href="#">Q13219</a> ;
	Mouse		<a href="#">Q8R4K8</a> ;
<b>Cellular Localization</b>	Secreted .		
<b>Tissue specificity</b>	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.		
<b>Function</b>	Catalytic activity: Cleavage of the 135-Met- -Lys-136 bond in insulin-like growth factor binding protein (IGFBP)-4, and the 143-Ser- -Lys-144 bond in IGFBP-5., cofactor: Binds 1 zinc ion per subunit., developmental stage: Present in serum and placenta during pregnancy; levels increase throughout pregnancy., enzyme regulation: Inhibited by complexation with the proform of PRG2., 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., induction: By 8-bromoadenosine-3',5'-phosphate., PTM: There appear to be no free sulfhydryl groups., similarity: Belongs to the peptidase M43B family., similarity: Contains 5 Sushi (CCP/SCR) domains., subunit: Homodimer; disulfide-linked. In pregnancy serum, predominantly found as a disulfide-linked 2:2 heterotetramer with the proform of PRG2., tissue specificity: Expressed in placenta with lower expression in brain, kidney and testis., 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.,		

## | Validation Data

## | Contact information

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