

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

| | | | |
|------------------------------|--|------------------------|--------------------------|
| Protein Name | 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) | | |
| | Organism | Gene ID | UniProt ID |
| | Human | 5069 ; | Q13219 ; |
| | Mouse | | Q8R4K8 ; |
| Cellular 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. | | |
| Function | 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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