



PAPP1 Monoclonal Antibody

Catalog No	BYmab-07160
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB
Gene Name	PAPPA
Protein Name	Pappalysin-1 (EC 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)
Immunogen	Synthesized peptide derived from human protein . at AA range: 30-110
Specificity	PAPP1 Monoclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	178kD
Cell Pathway	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-I-Lys-136 bond in insulin-like growth factor binding protein (IGFBP)-4, and the 143-Ser-I-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

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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

Background

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. [provided by RefSeq, Jul 2008],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images

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