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PAPPA Mouse mAb

Catalog # AP98648

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q13219
Other Accession	Q13219
Reactivity	Human
Predicted	Rat, Mouse
Host	Mouse
Clonality	Monoclonal
Calculated MW	180973
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PAPPA
Isotype	IgG1, k
Purity	affinity purified by Protein A
Buffer	0.01M TBS(pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the peptidase M43B family.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.
Post-translational modifications	There appear to be no free sulfhydryl groups.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	5069
Other Names	ASBABP2; DIPLA1; IGFBP-4ase; PAPA; PAPP-A; PAPPA1; PAPP1_HUMAN; PAPPA; Insulin-like growth factor-dependent IGF-binding protein 4 protease (IGF-dependent IGFBP-4 protease | IGFBP-4ase); Pregnancy-associated plasma protein A (PAPP-A); 3.4.24.79; pappalysin 1; pregnancy-associated plasma protein A, pappalysin 1; insulin-like growth factor-dependent IGF binding protein-4 protease; aspecific BCL2 ARE-binding protein 2; differentially placenta 1 expressed protein
Dilution	ELISA=1:30-3000,IF=1:100-200,IHC-P=1:100-200,IHC-F=1:100-200
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.