PAPPA Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PAPPA, Polyclonal Antibody
Full Product Name	PAPPA Antibody HRP Conjugated
Product Gene Name	anti-PAPPA antibody
Product Synonym Names	PAPA; DIPLA1; PAPP-A; PAPPA1; ASBABP2; IGFBP-4ase; Pappalysin-1; Insulin-like growth factor-dependent IGF-binding protein 4 protease; IGF-dependent IGFBP-4 protease; Pregnancy-associated plasma protein A; PAPPA
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	10mM Tris Buffered Saline containing 1% BSA, 50% glycerol and 0.09% Gentamicin.
Purity/Purification	Purified by Protein A
Concentration	1mgml (lot specific)
Preparation and Storage	Store at 4 degree C for 12 months.
Molecular Weight	180,973 Da
OMIM	176385
3D Structure	ModBase 3D Structure for Q13219
Conjugation	HRP
Immunogen	KLH conjugated synthetic peptide aa 1370-1420 1627 derived from human PAPPA
Product Categories/Family for anti-PAPPA antibody	Conjugated Primary Antibodies
Applications Tested/Suitable for anti-PAPPA antibody	Western Blot (WB), Immunohistochemistry-Paraffin (IHC-P)
Application Notes for anti-PAPPA antibody	WB: 1:100-1000 IHC: 1:100-500
Related Product Information for anti-PAPPA antibody	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.
Other Notes	Small volumes of anti-PAPPA antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PAPPA purchase	MBS9461732 is an antibody targeting PAPPA. Also known as PAPPA Antibody HRP Conjugated. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PAPPA. It may not necessarily be applicable to this product.

NCBI GI #	223590248

NCBI GeneID	5069
NCBI Accession #	Q13219.3
UniProt Primary Accession #	Q13219
UniProt Secondary Accession #	Q08371; Q68G52; Q9UDK7; B1AMF9
UniProt Related Accession #	Q13219
NCBI Official Full Name	Pappalysin-1
NCBI Official Synonym Full Names	pregnancy-associated plasma protein A, pappalysin 1
NCBI Official Symbol	PAPPA
NCBI Official Synonym Symbols	PAPA; DIPLA1; PAPP-A; PAPPA1; ASBABP2; IGFBP-4ase
UniProt Protein Name	Pappalysin-1
UniProt Synonym Protein Names	Insulin-like growth factor-dependent IGF-binding protein 4 protease; IGF-dependent IGFBP-4 protease; IGFBP-4ase; Pregnancy-associated plasma protein A
Protein Family	Pappalysin
UniProt Gene Name	PAPPA
UniProt Synonym Gene Names	IGF-dependent IGFBP-4 protease; IGFBP-4ase; PAPP-A
UniProt Entry Name	PAPP1_HUMAN
NCBI Protein Information	pappalysin-1; IGF-dependent IGFBP-4 protease; aspecific BCL2 ARE-binding protein 2; pregnacy-associated plasma protein A; differentially placenta 1 expressed protein; insulin-like growth factor-dependent IGF binding protein-4 protease; insulin-like growth
NCBI Summary for PAPPA	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]
UniProt Comments for PAPPA	PAPPA: 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. Belongs to the peptidase M43B family. Protein type: EC 3.4.24.79; Secreted; Secreted, signal peptide; Protease Chromosomal Location of Human Ortholog: 9q33.2 Cellular Component: membrane; extracellular region Molecular Function: metallopeptidase activity; zinc ion binding; metalloendopeptidase activity Biological Process: cellular protein metabolic process; female pregnancy; cell differentiation; proteolysis
Research Articles on PAPPA	**1.** PAPPA can be used as a novel biomarker for the diagnosis of sepsis-related myocardial dysfunction and the prediction of outcomes in critically ill patients.
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