PAPP A2 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	PAPP A2 (PAPPA2), Blocking Peptide
Full Product Name	PAPP A2 Blocking Peptide
Product Gene Name	PAPPA2 blocking peptide
Product Synonym Gene Name	PLAC3
Product Synonym Names	PAPPA 2; PAPP E; PAPP-A2; PAPP-E; PAPP2_HUMAN; PAPPA2; Pappalysin 2; Pappalysin-2; PLAC3; Pregnancy associated plasma protein A2; Pregnancy associated plasma protein E1; Pregnancy-associated plasma protein A2; Pregnancy-associated plasma protein E1
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	PAPP A2 peptide (MBS9622116) is used for blocking the activity of PAPP A2 antibody (MBS9612172)
Molecular Weight	198,539 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (176432307..176811972). Location: 1q23-q25
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for PAPPA2 blocking peptide	Blocking/Control
Related Product Information for PAPPA2 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of PAPPA2 blocking peptide 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 PAPPA2 purchase	MBS9622116 is a blocking peptide targeting PAPPA2. Also known as PAPP A2 Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PAPPA2. It may not necessarily be applicable to this product.

NCBI GI #	116174738
NCBI GeneID	60676
NCBI Accession #	NP_064714.2

UniProt Primary Accession #	Q9BXP8
UniProt Secondary Accession #	Q96PH7; Q96PH8; Q9H4C9; A9Z1Y8
UniProt Related Accession #	Q9BXP8
GenBank Nucleotide #	NP_064714.2
NCBI Official Full Name	pappalysin-2 isoform 1
NCBI Official Synonym Full Names	pappalysin 2
NCBI Official Symbol	PAPPA2
NCBI Official Synonym Symbols	PAPPE; PLAC3; PAPP-E; PAPP-A2
UniProt Protein Name	Pappalysin-2
UniProt Synonym Protein Names	Pregnancy-associated plasma protein A2; PAPP-A2; Pregnancy-associated plasma protein E1
Protein Family	Pappalysin
UniProt Gene Name	PAPPA2
UniProt Synonym Gene Names	PLAC3; PAPP-A2; PAPP-E
UniProt Entry Name	PAPP2_HUMAN
NCBI Protein Information	pappalysin-2; placenta-specific 3; pregnancy-associated plasma protein E1; pregnancy-associated plasma preproprotein-A2
NCBI Summary for PAPPA2	This gene encodes a member of the pappalysin family of metzincin metalloproteinases. The encoded protein cleaves insulin-like growth factor-binding protein 5 and is thought to be a local regulator of insulin-like growth factor (IGF) bioavailability. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2010]
UniProt Comments for PAPPA2	PAPPA2: Metalloproteinase which specifically cleaves IGFBP-5. Shows limited proteolysis toward IGFBP-3. Belongs to the peptidase M43B family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 3.4.24.-; Protease; Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 1q25.2 Cellular Component: membrane; extracellular region; intracellular Molecular Function: metallopeptidase activity; zinc ion binding Biological Process: cellular protein metabolic process; regulation of cell growth; cell differentiation; proteolysis
Research Articles on PAPPA2	**1.** Association of a single nucleotide polymorphism in pregnancy-associated plasma protein-A2 with developmental dysplasia of the hip
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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