

Recombinant Human PAPP A Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PAPP A-1321H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PAPP A MS Standard C13 and N15-labeled recombinant protein (NP_002572) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a secreted metalloproteinase which cleaves insulin-like growth factor binding proteins (IGFBPs). Following IGFBP cleavage, insulin growth factors dissociate from IGFBPs and bind to IGF receptors, resulting in activation of the IGF pathway. The encoded protein plays a role in bone formation, inflammation, wound healing and female fertility. Enhanced expression of this protein is associated with diabetic nephropathy in human patients and this protein may promote tumor invasion and growth in various human cancers.
Molecular Mass	181.4 kDa
AA Sequence	MRLWSWVLHLGLLSAALGCGLAERPRRRARRDPRAGRPPRPAAGPATCATRAARG RRASPPPPPPPGGAWEAVRVPRRRQQRARGATEEPSPPSRALYFSGRGEQLRL RADLELPRDAFTLQVWLRAEGGQRSPAVITGLYDKCSYISDRDGRWVVGIIHTISDQDN KDPRIFFSLKTDRARQVTTINAHRSYLPQWVYLAATYDGQFMKLYVNGAQVATSG EQVGGIFSPLTQKCKVLMLGGSALNHNRYRGYIEHFSWLKQVARTQREILSDMETHGA HTALPQLLLQENWDNVKHAWSMKDGSPPKVEFSNAHGFLDTSLEPPLCGQTLC

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DNTEVIASYNQLSSFRQPKVVRYRVVNLIEDDHKNPTVTREQVDFQHHQLAEAFKQ
 YNISWELDVLEVSNSSLRRRLILANCDISKIGDENCDPECNHTLTGHDGGDCRHLRH
 PAFVKKQHNGVCDMDCNYERFNFDGGGCCDPEITNVTQTCFDPDSPHRAYLDVNE
 LKNILKLDGSTHLNIFFAKSSEEELAGVATWPWDKEALMHLGGIVLNPSFYGMPGHT
 HTMIHEIGHSLGLYHVFRGISEIQSCSDPCMETEPSFETGDLCDNTNPAPKHKSCGD
 PGPGNDTCGFHSFFNTPYNNFMSYADDDCTDSFTPNQVARMHCYLDLVYQGWQP
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 ASSPMPCSPSGHWSPREAEGHPDVEQPCSSVRTWSPNSAVNPHTVPPACPEPQ
 GCYLELEFLYPLVPESLTIWVTFVSTDWDSSGAVNDIKLLAVSGKNISLGPQNVFCDV
 PLTIRLWDVGEEVYGIQIYTLDEHLEIDAAMLTSTADTPLCLQCKPLKYKVVRDPPLQ
 MDVASILHLNRKFVMDLNLGSGVYQYWVITISGTEESEPSPAVTYIHGSGYCGDGIIQ
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 DCGVYTPQGFLDQWASNASVSHQDQCPGWVIIGQPAASQVCRTKVIDLSEGISQH
 AWYPCTISYPYSQLAQTTFWL RAYFSQPMVAAVIVHLVTDGTYYGDQKQETISVQL
 LDTKDQSHDLGLHVLSCRNNPLIIPVVHDLSQPFYHSQAVRVSFSSPLVAISGVALRS
 FDNFDPVTLSSCQRGETYSTPAEQSCVHFACEKTDCPELAVENASLNCSSSDRYHGA
 QCTVSCRTGYVLQIRRDDELIKSQTGPSVTVTCTEGKWNKQVACEPVDCSIPDHHQ
 VYAAAFSCPEGTTFGSQCSFQCRHPAQLKGNNSLTTCMEDGLWSFPEALCELMCL
 APPPVPNADLQTARCRENKHKVG SFCKYKCKPGYHVP GSSRKS KRAFKTQCTQD
 GSWQEGACVPVTC DPPP KFHGLYQCTNGFQFNSECRKCEDSDASQGLGSNVIH
 CRKDGTWNGSFHVCQEMQGQCSVPNELNSNLKLQCPDGYAIGSECATSCLDHNS
 ESIILPMNVTVRDIPHWNPTRVERVVCTAGLKWYPHPALIHCVKGCEPFMGDNYCD
 AINNRAFCNYDGGDCCTSTVKTKKVTPPFPMSCDLQGDCA CRDPQAQEH SRKDLRG
 YSHGSGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

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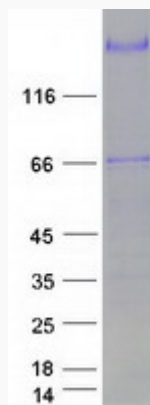
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Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.
GENE INFORMATION	
Gene Name	PAPPA pappalysin 1 [Homo sapiens (human)]
Official Symbol	PAPPA
Synonyms	PAPPA; pregnancy-associated plasma protein A, pappalysin 1; pappalysin-1; ASBABP2; aspecific BCL2 ARE binding protein 2; differentially placenta 1 expressed protein; DIPLA1; IGFBP 4ase; insulin like growth factor dependent IGF binding protein 4 protease; PAPA; PAPP A; PAPPA1; IGF-dependent IGFBP-4 protease; aspecific BCL2 ARE-binding protein 2; pregnancy-associated plasma protein A; insulin-like growth factor-dependent IGF binding protein-4 protease; insulin-like growth factor-dependent IGF-binding protein 4 protease; PAPP-A; IGFBP-4ase;
Gene ID	5069
mRNA Refseq	NM_002581
Protein Refseq	NP_002572
MIM	176385
UniProt ID	Q13219

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SDS-PAGE

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