

Recombinant Human PAPPA Protein, His&Avi tagged

Cat. No. PAPPA-1607H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PAPPA Protein with His&Avi tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	82-1627 aa
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.
Tag	His&Avi
Molecular Mass	175 kDa
AA Sequence	EARGATEEPSPPSRALYFSGRGEQLRLRADLELPRDAFTLQVWLRAEGGQRSPAVI TGLYDKCSYISDRGWVVGIIHTISDQDNKDPRYFFSLKTDRARQVTTINAHRSYLPG QWVYLAATYDQGFMKLYVNGAQVATSGEQVGGIFSPLTQKCKVLMLGGSALNHNY RGYIEHFSWLKVARTQREILSDMETHGAHTALPQLLLQENWDNVKHAWSPMKDGS SPKVEFSNAHGFLDTSLEPPLCGQTLCDNTEVIASYNQLSSFRQPKVVRVYRVNLY

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EDDHKNPTVTREQVDFQHHQLAEAFKQYNISWELDVLEVSNSLRRRLILANCDISKI
 GDENCDPECNHTLTGHDGGDCRHLRHPAFVKKQHNGVCDMDCNYERFNFDDGGEC
 CDPEITNVTQTCFDPDSPHRAYLDVNELKNILKLDGSTHLNIFFAKSSEEELAGVATW
 PWDKEALMHLGGIVLNPSFYGMPGHTHTMIHEIGHSLGLYHVFRGISEIQSCSDPCM
 ETEPSFETGDLNNDTNPAPKHKSCGDPGPGNDTCGFHSFFNTPTNNFMSYADDDC
 TDSFTPNQVARMHCYLDLVYQGWQPSRKPAVALAPQVLGHTTDSVTLEWFPPID
 GHFFERELGSACHLCLEGRILVQYASNASSPMPCSPSGHWSPREAEGHPDVEQPC
 KSSVRTWSPNSAVNPHTVPPACPEPQGCYLELEFLYPLVPESLTIWTVFVSTDWDS
 SGAVNDIKLLAVSGKNISLGPQNVFCDVPLTIRLWDVGEEVYGIQIYTLDEHLEIDAAM
 LTSTADTPLCLQCKPLKYKVVRDPPLQMDVASILHLNRKFVMDLNLGSVYQYVWITI
 SGTEESESPAVTYIHGSGYCGDGIIQKDQGEQCDDMNKINGDGCSLFCRQEVSN
 CIDEPSRCYFHDGDGVCEEFEQKTSIKDCGVYTPQGFLDQWASNASVSHQDQQCP
 GWVIIGQPAASQVCRTKVIDLSEGISQHAWYPCTISYPYSQLAQTTFWLRAYFSQPM
 VAAAVIVHLVTDGTYYGDKQETISVQLLDTKDQSHDLGLHVLSCRNNPLIIPVVHDL
 SQPFYHSQAVRVSFSSPLVAISGVALRSFDNFDVTLSSCQRGETYSPAEQSCVHF
 ACEKTDCELAVENASLNCSSSDRYHGAQCTVSCRTGYVLQIRRDDELIXSQTGPS
 VTVTCTEGKWNKQVACEPVDCSIPDHHQVYAASFSCPEGTTFGSQCSFQCRHPAQ
 LKGNNLLTCMEDGLWSFPEALCELMCLAPPPVPNADLQTARCRENKHKVGSFCK
 YKCKPGYHVPGSSRKSCKRAFKTQCTQDGSWQEGACVPVTCDDPPPKFHGLYQC
 TNGFQFNSECRKCEDSDASQGLGSNVIHCRKDGTWNGSFHVCQEMQGQCSVPN
 ELNSNLKLQCPDGYAIGSECATSCLDHNSESIILPMNVTVRDIPHWLNPTVRERVVCT
 AGLKWYPHPALIHCVKGCEPFMGDNYCDAINNRAFCNYDGGDCCTSTVTKKVTPE
 PMSCDLQGDCACRDPQAQEHSRKDLRGYSHGHHHHHHHHGLNDIFEAQKIEWHE

Endotoxin <1 EU/μg by LAL

Purity > 85% by SDS-PAGE

Storage Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

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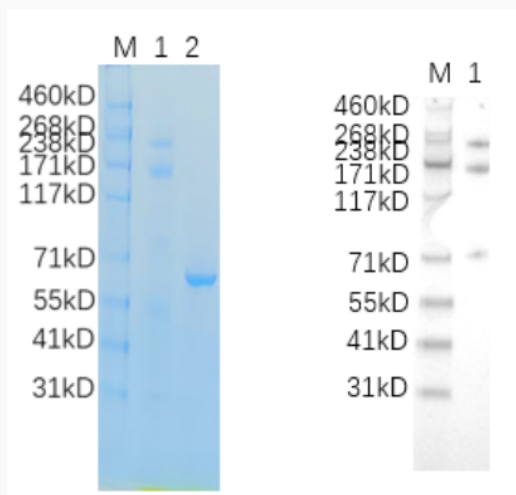
Storage Buffer	Sterile PBS, pH7.4
Concentration	0.34 mg/mL by BCA
GENE INFORMATION	
Gene Name	PAPPA pappalysin 1 [Homo sapiens (human)]
Official Symbol	PAPPA
Synonyms	PAPPA; pregnancy-associated plasma protein A, pappalysin 1; pappalysin-1; ASBABP2; aspecific BCL2 ARE binding protein 2; differentially 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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**Reducing 4%-20%
SDS-PAGE (CBB
stained) and WB
(Anti-His Mouse
Monoclonal
antibody) analysis
profiles of purified
PAPPA.**



1. PAPPA: 1 μ g
2. BSA: 1 μ g

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