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 TGLYDKCSYISRDRGWVVGIHTISDQDNKDPRYFFSLKTDRARQVTTINAHRSYLPG QWVYLAATYDGQFMKLYVNGAQVATSGEQVGGIFSPLTQKCKVLMLGGSALNHNY RGYIEHFSLWKVARTQREILSDMETHGAHTALPQLLLQENWDNVKHAWSPMKDGS SPKVEFSNAHGFLLDTSLEPPLCGQTLCDNTEVIASYNQLSSFRQPKVVRYRVVNLY

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	EDDHKNPTVTREQVDFQHHQLAEAFKQYNISWELDVLEVSNSSLRRRLILANCDISKI GDENCDPECNHTLTGHDGGDCRHLRHPAFVKKQHNGVCDMDCNYERFNFDGGEC CDPEITNVTQTCFDPDSPHRAYLDVNELKNILKLDGSTHLNIFFAKSSEEELAGVATW PWDKEALMHLGGIVLNPSFYGMPGHTHTMIHEIGHSLGLYHVFRGISEIQSCSDPCM ETEPSFETGDLCNDTNPAPKHKSCGDPGPGNDTCGFHSFFNTPYNNFMSYADDDC TDSFTPNQVARMHCYLDLVYQGWQPSRKPAPVALAPQVLGHTTDSVTLEWFPPID GHFFERELGSACHLCLEGRILVQYASNASSPMPCSPSGHWSPREAEGHPDVEQPC KSSVRTWSPNSAVNPHTVPPACPEPQGCYLELEFLYPLVPESLTIWVTFVSTDWDS SGAVNDIKLLAVSGKNISLGPQNVFCDVPLTIRLWDVGEEVYGIQIYTLDEHLEIDAAM LTSTADTPLCLQCKPLKYKVVRDPPLQMDVASILHLNRKFVDMDLNLGSVYQYWVITI SGTEESEPSPAVTYIHGSGYCGDGIIQKDQGEQCDDMNKINGDGCSLFCRQEVSFN CIDEPSRCYFHDGDGVCEEFEQKTSIKDCGVYTPQGFLDQWASNASVSHQDQQCP GWVIIGQPAASQVCRTKVIDLSEGISQHAWYPCTISYPYSQLAQTTFWLRAYFSQPM VAAAVIVHLVTDGTYYGDQKQETISVQLLDTKDQSHDLGLHVLSCRNNPLIIPVVHDL SQPFYHSQAVRVSFSSPLVAISGVALRSFDNFDPVTLSSCQRGETYSPAEQSCVHF ACEKTDCPELAVENASLNCSSSDRYHGAQCTVSCRTGYVLQIRRDDELIKSQTGPS VTVTCTEGKWNKQVACEPVDCSIPDHHQVYAASFSCPEGTTFGSQCSFQCRHPAQ LKGNNSLLTCMEDGLWSFPEALCELMCLAPPPVPNADLQTARCRENKHKVGSFCK YKCKPGYHVPGSSRKSKKRAFKTQCTQDGSWQEGACVPVTCDPPPPKFHGLYQC TNGFQFNSECRIKCEDSDASQGLGSNVIHCRKDGTWNGSFHVCQEMQGQCSVPN ELNSNLKLQCPDGYAIGSECATSCLDHNSESIILPMNVTVRDIPHWLNPTRVERVVCT AGLKWYPHPALIHCVKGCEPFMGDNYCDAINNRAFCNYDGGDCCTSTVKTKKVTPF 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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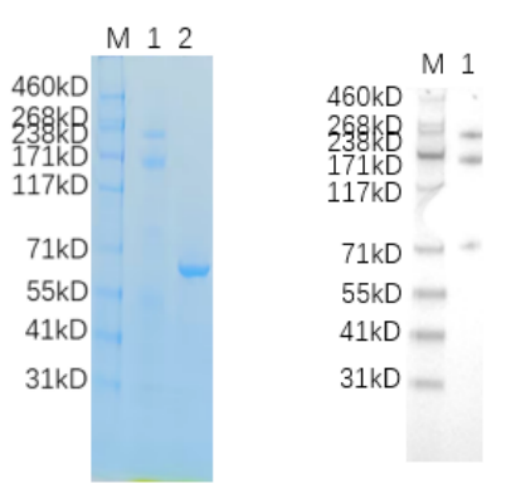
Storage Buffer	Sterile PBS, pH7.4
Concentration	0.34 mg/mL by BCA

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; pregnacy-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 μg
2. BSA: 1 μg

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