

Product datasheet for PH309767

PAPP A (PAPPA) (NM_002581) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PAPPA MS Standard C13 and N15-labeled recombinant protein (NP_002572)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC209767
Predicted MW:	181.4 kDa
Protein Sequence:	>RC209767 representing NM_002581 Red=Cloning site Green=Tags(s)

MRLWSWVHLGLLSAALGCLAERPRRARRDPFRAGPRPPRAAGPATCATRAARGRRASPPPPPPPGAW
AVRVPRRRQREARGATEEPSPPSRALYFSGRGEQLRLRADLELPRDAFTLQVWLR AEGGQRSPAVITGL
YDKCSYISRDRGWVVGIIHTISDQDNKDPYFFSLKTDRAQVTTINAHRSYLPQQWVYLAATYDQGFMKL
YVNGAQVATSQEGVGGIFSPLTQKCKVLMGGSALNHNRYGYIEHFSLWKVARTQREILSDMETHGAHTA
LPQLLLQENWDNVKHAWSMKDSSPKVEFSNAHGFLLDTSLEPPLCGQTLCDNTEVIASYNQLSSFRQP
KVVRYRVVNL YEDDHKNPTVTREQVDFQHHLAEAFKQYNI SWELDVLEVSNSLRRRLILANCDISKIG
DENCDEPCNHTLTGHDDGDCRHLRHPAFVKKQHNGVCDMDCNYERFNFDGGECCDPEITNVTQTCFDPDS
PHRAYLDVNELKNILKLDGSTHLNIFFAKSSEELAGVATWPDKEALMHLGGIVLNP SFYGMFGHTHTM
IHEIGHSLGLYHVFRGISEIQSCSDPCMETEPSFETGDLCDNTPAPKHKSCGDPGPGNDTCGFHSFFNT
PYNFMYSYADDDCTDSFTPNQVARMHCYLDLVYQGWQPSRKPAPVALAPQVLGHTTDSVTLEWFPIDGH
FFERELGSACHLCLEGRILVQYASNASSPMPCSPSGHWSPREAEGHPDVEQPCSSVRTWSPNSAVNPHT
VPPACPEPQGCYLELEFLYPLVPESLTIWVTFVSTDWSSGAVNDIKLLAVSGKNI SLGPQNVFCDVPLT
IRLWDVGEEVYGIQIYTLDEHLEIDAAML TSTADTPLCLQCKPLKYKVVDRPPLQMDVASILHLNRKFVD
MDLNLGSVYQYVITISGTEESESPAVTYIHGSGYCGDGI IQKDQGEQCDDMNKINGDGCSLFCRQEVS
FNCLDEPSRCYFHDGDGVCEEFEQKTSIKDCGVYTPQGFLDQWASNASVSHQDQCPGWV IIGQPAASQV
CRTKVIDLSEGISQHAWYPCITISYPYSQLAQTTFWLRAYFSQPMVAAAIVHLVTDGTYYGDQKQETISV
QLLDTKDQSHDLGLHVLSCRNNPLIIPVVDLSQPFYHSQAVRVFS SPLLVAISGVALRSFDNFDPVTL
SCQRGETYSPAEQSCVHFACEKTDCEPELAVENASLNCSSSDRYHGAQCTVSCRTGYVLQIRRDDELKISQ
TGPSVTVTCTEGKWNKQVACEPVDCSIPDHHQVYAAFSCEPGETTFSQCSFQCRHPAQLKGNNSLLTCM
EDGLWSFPEALCELMCLAPPPVPNADLQTARCRENKHKVGFSCKYKCPGYHVPSSRKS KKRKFQCT
QDGSWQEGACVPVTCDDPPPKFHGLYQCTNGFQFNSECRKCEDSDASQGLGSNVIHCRKDG TWNGSFHV
CQEMQGCQSVNELNSNLKLCQPDGYAIGSECATSCLDHNSESIILPMNVTVRDIPHWLNPTTRVERVVCT
AGLKWYPHPAL IHCVKGCEPFMGDNYCDAINNRAFCNYDGGDCCTSTVKTKKVT PFPMSCDLQGDACR
PQAQEHSRKDLRGYSHG

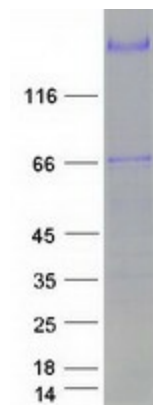
SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV



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Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_002572
RefSeq Size:	11025
RefSeq ORF:	4881
Synonyms:	ASBABP2; DIPLA1; IGFBP-4ase; PAPA; PAPP-A; PAPPA1
Locus ID:	5069
UniProt ID:	Q13219 , Q7Z613 , B4DTA8
Cytogenetics:	9q33.1
Summary:	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. [provided by RefSeq, Aug 2017]
Protein Families:	Druggable Genome, Protease, Secreted Protein

Product images:



Coomassie blue staining of purified PAPP A protein (Cat# [TP309767]). The protein was produced from HEK293T cells transfected with PAPP A cDNA clone (Cat# [RC209767]) using MegaTran 2.0 (Cat# [TT210002]).