

Product datasheet for TP316318M

DIAPH1 (NM_005219) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human diaphanous homolog 1 (Drosophila) (DIAPH1), transcript variant 1, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA	>RC216318 representing NM_005219
Clone or AA Sequence:	Red=Cloning site Green=Tags(s)

MEPPGGSLGPGRGTRDKKKGRSPDELPSAGGDGGKSKKFTLKRLMADELERFTSMRIKKEKEKPNSAHRN
SSASYGDDPTAQLQDVSDQVLVLFQMLLDMNLNEEKQQPLREKDIKREMVSQYLYTSKAGMSQKE
SSKSAMMYIQELRGLRDMPLLSCLSLRVLNPNVSWVQTFGAEGLASLLDILKRLHDEKEETAGSYD
SRNKHEIIRCLKAFMNNKFGIKTMLETEEGILLVLRAMPVAVPNMMIDAALLSALCILPQPEDMNERVL
EAMTERAEMDEVERFQPLLDGLKSGTTIALKVGCLQLINALITPAEELDFRVHIRSELMRLGLHQVLQDL
REIENEDMRVQLNVFDEQGEEDSYDLKGRLLDIRMEMDDFNEVFQILLNTVKDSKAEPHLSILQHLLLV
RNDYEARPQYYKLIIEECISQIVLHKNAGDPDFKCRHLQIEIEGLIDQMIDKTKVEKSEAKAAELEKKLDS
ELTARHELQVEMKKMESDFEQKLQDLQGEKDALHSEKQIQATEKQDLEAEVSQLTGEVAKLTKLEDAKK
EMASLSAAAITVPPSVPSRAPVPPAPPLPGDSGTIIPPPAPGDSTTPPPPPPPPPPPPLPGGVCISSP
PSLPGGTAISPPPPSGDATIPPPPLPEGVGIPSPSSLPGGTAIPPPPLPGSARIPPPPPPLPGSAGI
PPPPPLPGEAGMPPPPPLPGGPGIPPPPPFPGGPGIPPPPPGMGMPPPPPFGFGVPAAPVLPFGLTPK
KLYKPEVQLRRPNWSKLVAEDLSQDCFWTKVKEDRFENNELFAKLTLTFSAQTKTSKAKKDQEGGEEKS
VQKKVKELKVLDSKTAQNLSIFLGSFRMPYQEIKNVILEVNEAVLTESMIQNLIKQMPPEQLKMLSEL
KDEYDDLAESEQFGVVMGTVPRLRPRLNAILFKLQFSEQVENIKPEIVSVTAAACEELRKSEFSFNLEIT
LLVGNYMNAGSRNAGAFGFNISFLCKLRDTKSTDQKMTLLHFLAELCENDYPDVLKFPDELAHVEKASRV
SAENLQKNLDQMKKQISDVERDVQNFPAATDEKDKFVEKMTSFVKDAQEQYNKLRMMHNSMETLYKELGE
YFLFDPKKLSVEEFFMDLHNFRNMFLQAVKENQKRRETEEKMRRAKLAKEKAERLEKQKREQLIDMN
AEGDETGVMDSLLEALQSGAAFRRKRGRPRQANRKAGCAVTSLLASELTKDDAMAAPPAKVSKNSETFPTI
LEEAKELVGRAS

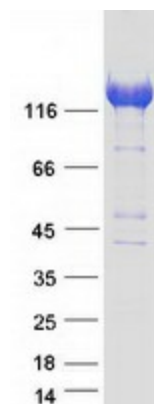
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	141.2 kDa



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Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_005210
Locus ID:	1729
UniProt ID:	O60610 , Q6URC4
RefSeq Size:	5745
Cytogenetics:	5q31.3
RefSeq ORF:	3816
Synonyms:	DFNA1; DIA1; DRF1; hDIA1; LFHL1; SCBMS
Summary:	This gene is a homolog of the Drosophila diaphanous gene, and has been linked to autosomal dominant, fully penetrant, nonsyndromic sensorineural progressive low-frequency hearing loss. Actin polymerization involves proteins known to interact with diaphanous protein in Drosophila and mouse. It has therefore been speculated that this gene may have a role in the regulation of actin polymerization in hair cells of the inner ear. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
Protein Families:	Druggable Genome, Stem cell - Pluripotency
Protein Pathways:	Focal adhesion, Regulation of actin cytoskeleton

Product images:

Coomassie blue staining of purified DIAPH1 protein (Cat# [TP316318]). The protein was produced from HEK293T cells transfected with DIAPH1 cDNA clone (Cat# [RC216318]) using MegaTran 2.0 (Cat# [TT210002]).