

Recombinant Human DIAPH1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. DIAPH1-4912H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	DIAPH1 MS Standard C13 and N15-labeled recombinant protein (NP_001073280) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	140.2 kDa
AA Sequence	MEPPGGSLGPGRGTRDKKKGRSPDELPSAGGDGGKSKKFLERFTSMRIKKEKEKP NSAHRNSSASYGDDPTAQLQDVSDEQVLVLFEQMLLDMNLNEEKQQPLREKDIIK REMVSYLYTSKAGMSQKESSKSAMMYIQELRSGLRDMPLLSCLESLRVSLNNNPV SWVQTFGAEGLASLLDILKRLHDEKEETAGSYDSRNKHEIIRCLKAFMNNKFGIKTML ETEEGILLVVRAMDPVPMNMIDAAKLLSALCILPQPEDMNERVLEAMTERAEMDEV ERFQPLLDGLKSGTTIALKVGCLQLINALITPAEELDFRVHIRSELMRLGLHQVLQDLR

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

EIENEDMRVQLNVFDEQGEEDSYDLKGRLLDDIRMEDDFNEVFQILLNTVKDSKAEP
 HFLSILQHLLLVVRNDYARPQYYKLIEECISQIVLHKNGADPDFKCRHLQIEIEGLIDQM
 IDKTKVEKSEAKAAELEKKLDSELTARHELQVEMKKMESDFEQKLQDLQGEKDALS
 EKQQIATEKQDLEAEVSQLTGEVAKLTKELEDKEMASLSAAAITVPPSVPSRAPV
 PPAPPLPGDSGTIIPPPAPGDSTTPPPPPPPPPPPPLPGGVCISSPPSLPGGTAISP
 PPPLSGDATIPPPPLPEGVGIPSPSSLPGGTAIPPPPPPLPGSARIPPPPPPLPGSAGI
 PPPPPPLPGEAGMPPPPPPPLPGGPGIPPPPPFPGGPGIPPPPPGMGMPPPPPFPGFG
 VPAAPVLPFGLTPKKLYKPEVQLRRPNWSKLVAEDLSQDCFWTKVKEDRFENNELF
 AKLTLTFSAQTKTSKAKKDQEGGEEKSVQKKVKELKVLDSKTAQNLSIFLGSRM
 PYQEIKNVILEVNEAVLTESMIQNLIKQMPPEPEQLKMLSELKDEYDDLAESEQFGVVM
 GTVPRLRPRLNAILFKLQFSEQVENIKPEIVSVTAACEELRKSESFSNLEITLLVGNY
 MNAGSRNAGAFGFNISFLCKLRDTKSTDQKMTLLHFLAELCENDYPDVLKFPDELAH
 VEKASRVSAENLQKNLDQMKKQISDVERDVQNFPAAATDEKDKFVEKMTSFVKDAQE
 QYNKLMMHSMETLYKELGEYFLFDPKKLSVEEFFMDLHNFRNMFLQAVKENQK
 RRETEKMRRAKLAKEKAERLEKQKREQLIDMNAEGDETGVMDSLLEALQSGA
 AFRRKRGRPRQANRKAGCAVTSLLASELTKDDAMAAVPAKVSKNSETFPTILEEAKEL
 VGRASTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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.

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

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Gene Name	DIAPH1 diaphanous related formin 1 [Homo sapiens (human)]
Official Symbol	DIAPH1
Synonyms	DIAPH1; diaphanous homolog 1 (Drosophila); DFNA1, diaphanous (Drosophila, homolog) 1; protein diaphanous homolog 1; hDIA1; LFHL1; diaphanous-related formin 1; diaphanous-related formin-1; DIA1; DRF1; DFNA1; FLJ25265;
Gene ID	1729
mRNA Refseq	NM_001079812
Protein Refseq	NP_001073280
MIM	602121
UniProt ID	O60610
SDS-PAGE	