

# Recombinant Full Length Human DIAPH1 Protein, C-Flag-tagged

**Cat. No.** DIAPH1-720HFL    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length Human DIAPH1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | 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. |
| <b>Form</b>             | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Molecular Mass</b>   | 140.1 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>AA Sequence</b>      | MEPPGGS LGPGRGTRDKKKGRSPDELP SAGGDGGKSKKFLERFTSMRIKKEKEKP<br>NSAHRNSSASYGDDP TAQSLQDVSDEQVLVLFEQMLLD MNLNEEKQQPLREKDIII<br>KREMVSQYLYTSKAGMSQKESKSAMMYI QELRSGLRDMPLLSCLESLRVSLNNN<br>PVSWVQTFGAEGLASLLDILKRLHDEKEETAGSYDSRNKHEIIR CLKAFMNNKFGIK<br>TMLETEEGILLV RAMDPAVPNMMIDA AKLLSALCILPQPEDMNERVLEAMTERAEM                                                                                                                                                                                                                                   |

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

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

DEVERFQPLLDGLKSGTTIALKVGCLQLINALITPAEELDFRVHIRSELMRLGLHQVLQ  
 DLREIENEDMR VQLNVFDEQGEEDSYDLKGRLDDIRMEDDFNEVFQILLNTVKDS  
 KAEPHFLSILQHLLLVRNDYEARPQ YYKLIEECISQIVLHKNGADPDFKCRHLQIEIEG  
 LIDQMIDKTKVEKSEAKAAELEKKLDSELTARHELQ VEMKKMESDFEQKLQDLQGE  
 KDALHSEKQQIATEKQDLEAEVSQLTGEVAKLTKELEDAKKEMASLSAAA ITVPPSV  
 PSRAPVPPAPPLPGDSGTIIPPPAPGDSTTPPPPPPPPPPPPLPGGVCISSPPSLPG  
 GTAIS PPPPLSGDATIPPPPLPEGVGIPSPSSLPGGTAIPPPPLPGSARIPPPPPPL  
 PGSAGIPPPPPPLPGE AGMPPPPPPPLPGGPGIPPPPPFPGGPGIPPPPPGMGMPP  
 PPPFGFGVPAAPVLPFGLTPKKLYKPEVQLR RPNWSKLVAEDLSQDCFWTKVKED  
 RFENNELFAKLTLTFSAQTKTSKAKKDQEGGEEKSVQKKKV KELK VLDSKTAQNL  
 SIFLGSFRMPYQEIKNVILEVNEAVLTESMIQNLIKQMPEPEQLKMLSELKDEYDDLAE  
 S EQFGVVMGTVPRLRPRLNAILFKLQFSEQVENIKPEIVSVTAACEELRKSESFSNLL  
 EITLLVGNYMNAG SRNAGAFGFNISFLCKLRDTKSTDQKMTLLHFLAELCENDYPDV  
 LKFPDELAHVEKASRVSAENLQKNLD QMKKQISDVERDVQNFPAAATDEKDKFVEKM  
 TSFVKDAQEQYNKL RMMHSMETLYKELGEYFLFDPKKLS VEEFFMDLHNFRNMF  
 LQAVKENQKRRETEEKMRRAKLAKEKAERLEKQQKREQLIDMNAEGDETGVMD  
 SLLEALQSGAAFRRKRGRPRQANRKAGCAVTSLLASELTKDDAMAAPPAKVSKNSET  
 FPTILEEAKELVGR  
 ASTRTRPLEQKLISEEDLAANDILDYKDDDDKV

|                      |                                                                                                                                               |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>        | > 80% as determined by SDS-PAGE and Coomassie blue staining.                                                                                  |
| <b>Stability</b>     | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| <b>Storage</b>       | Store at -80 centigrade.                                                                                                                      |
| <b>Concentration</b> | >50 ug/mL as determined by microplate BCA method.                                                                                             |
| <b>Preparation</b>   | Recombinant protein was captured through anti-DDK affinity column followed by                                                                 |

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conventional chromatography steps.

**Protein Families** Druggable Genome, Stem cell - Pluripotency

**Protein Pathways** Focal adhesion, Regulation of actin cytoskeleton

**Full Length** Full L.

## GENE INFORMATION

**Gene Name** DIAPH1 diaphanous related formin 1 [ Homo sapiens (human) ]

**Official Symbol** DIAPH1

**Synonyms** DIA1; DRF1; DFNA1; LFHL1; SCBMS; hDIA1; mDia1

**Gene ID** 1729

**mRNA Refseq** NM\_001079812.3

**Protein Refseq** NP\_001073280.1

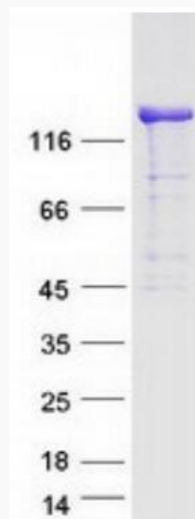
**MIM** 602121

**UniProt ID** O60610

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Coomassie blue staining of purified DIAPH1 protein.

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