

Product datasheet for TP313517M

DIAPH1 (NM_001079812) Human Recombinant Protein

Product data:

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|---------------------------------------|---|
| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human diaphanous homolog 1 (Drosophila) (DIAPH1), transcript variant 2, 100 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC213517 protein sequence Red=Cloning site Green=Tags(s) |

MEPPGGSLGPGRGTRDKKKGRSPDELPSAGGDGGKSKKFLERFTSMRIKKEKEKPNSAHRNSSASYGDDP
TAQSLQDVSDEQVLVLFQMLLDMNLNEEKQQPLREKDIKREMVSYLYTSKAGMSQKESKSSAMMYI
QELRSGLRDMPLLSCELSRVSLNNNPVSWVQTFGAEGLASLLDILKRLHDEKEETAGSYDSRNKHEIIR
CLKAFMNNKFGIKTMLETEGILLVVRAMPVAVPMMIDAAKLLSALCILPQPEDMNERVLEAMTERAEM
DEVERFQPLLDGLKSGTTIALKVGCLQLINALITPAEELDFRVHIRSELMRLGLHQVLQDLREIENEDMR
VQLNVFDEQGEEDSYDLKGRLLDIRMEMDDFNVEVQILLNNTVKDSKAEPHFLSILQHLLLVNRNDYEARPQ
YYKLIEECISQIVLHKNQADPDFKCRHLQIEIGLIDQMKDKVEKSEAKAAEKKLDSELTARHELQ
VEMKKMESDFEQLQDLQGEKDALHSEKQIATEKQDLEAEVSQLTGEVAKLTKELEDAKKEMASLSAAA
ITVPPSVPSPRAPVPPAPPLPGDSGTIIPPPAPGDDTTPPPPPPPPPPPPLPGGVCISSPPSLPGGTAIS
PPPPSGDATIPPPPLPEGVGIPSPSSLPGGTAIPPPPLPGSARIPPPPPPLPGSAGIPPPPPPLPGE
AGMPPPPPLPGGPGIPPPPPFPGGPGIPPPPPGMGMPPPPPFPGFVPAAPVLPFGLTPKKLYKPEVQLR
RPNWSKLVADLSQDCFWTQKVEDRFENNELFAKLTFTSAQTTSKAKKDQEGGEEKSVQKKVKELK
VLDSKTAQNLSIFLGSFRMPYQEIKNVILEVNEAVLTESMIQNLIKQMPPEPEQLKMLSELKDEYDDLAES
EQFGVVMGTVPRLRPNLAILFKLQFSEQVENIKPEIVSVTAACEELRKSEFSNLLIETLLVGNMNA
SRNAGAFGFNISFLCKLRDQKMTLLHFLAELCENDYPDVLKFPDELAHVEKASRVSAENLQKNLD
QMKKQISDVERDVQNFPAATDEKDKFVEKMTSFVKDAQEQYNKLRMMHNSMETLYKELGEYFLFDPKKLS
VEEFFMDLHNFRNMFLQAVKENQKRRETEEKMRRAKLAKEKAEKERLEKQKREQLIDMNAEGDETGVMD
SLLEALQSGAAFRKRGRPRQANRKAGCAVTSLLASELTKDDAMA AVPAKVSKNSETFPTILEEAKELVGR
AS

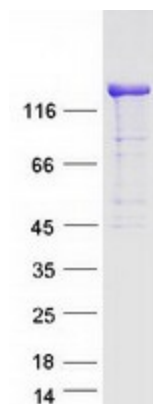
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

| | |
|---------------|-----------|
| Tag: | C-Myc/DDK |
| Predicted MW: | 140.1 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_001073280 |
| Locus ID: | 1729 |
| UniProt ID: | O60610 |
| RefSeq Size: | 5777 |
| Cytogenetics: | 5q31.3 |
| RefSeq ORF: | 3786 |
| Synonyms: | DFNA1; DIA1; DRF1; hDIA1; LFHL1; SCBMS |
| Summary: | This gene is a homolog of the <i>Drosophila</i> 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 <i>Drosophila</i> 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# [TP313517]). The protein was produced from HEK293T cells transfected with DIAPH1 cDNA clone (Cat# [RC213517]) using MegaTran 2.0 (Cat# [TT210002]).