

## Product datasheet for TP313517

### DIAPH1 (NM\_001079812) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human diaphanous homolog 1 (Drosophila) (DIAPH1), transcript variant 2, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC213517 protein sequence Red=Cloning site Green=Tags(s)

MEPPGGSLGPGRGTRDKKKGRSPDELPSAGDGGKSKKFLERFTSMRIKKEKEKPNSAHRNSSASYGDDP  
TAQSLQDVSDEQVLVLFQMLLDMNLNEEKQQLPREKDIIIKREMVSYLYTSKAGMSQKESKSSAMMYI  
QELRSLGRDMPLLSCELSRVSLNNNPVSWVQTFGAEGLASLLDILKRLHDEKEETAGSYDSRNKHEIIR  
CLKAFMNNKFGIKTMLETEGILLVVRAMPVAVPMMIDAAKLLSALCILPQPEDMNERVLEAMTERAEM  
DEVERFQPLLDGLKSGTTIALKVGCLQLINALITPAEELDFRVHIRSELMRLGLHQVLQDLREIENEDMR  
VQLNVFDEQGEEDSYDLKGRLLDIRMEMDDFNVEVQILLNNTVKDSKAEPHFLSILQHLLLVNRNDYEARPQ  
YYKLIEECISQIVLHKNQADPDFKCRHLQIEIQLIDQMKDKVEKSEAKAAELEKKLDSELTARHELQ  
VEMKKMESDFEQLQDLQGEKDALHSEKQIQATEKQDLEAEVSQLTGEVAKLTKELEDAKKEMASLSAAA  
ITVPPSVSRAPVPPAPPLPGDSGTIIPPPAPGDDTTPPPPPPPPPPPPLPGGVCISSPPSLPGGTAIS  
PPPPSGDATIPPPPLPEGVGIPSPSSLPGGTAIPPPPLPGSARIPPPPPPLPGSAGIPPPPPPLPGE  
AGMPPPPPLPGGPGIPPPPPFPGGPGIPPPPPGMGMPPPPPFPGFVPAAPVLPFGLTPKKLYKPEVQLR  
RPNWSKLVAEDLSQDCFWTQVKEKEDRFENNELFAKLTLTFSAQTKTSKAKKDQEGGEEKSVQKKVKELK  
VLDSKTAQNLSIFLGSFRMPYQEIKNVILEVNEAVLTESMIQNLIKQMPEPEQLKMLSELKDEYDDLAES  
EQFGVVMGTVPRLRPNLAILFKLQFSEQVENIKPEIVSVTAACEELRKSEFSNLLIETLLVGNMNAAG  
SRNAGAFGFNISFLCKLRDQKMTLLHFLAELCENDYPDVLKFPDELAHVEKASRVSAENLQKNLD  
QMKKQISDVERDVQNFPAATDEKDKFVEKMTSFVKDAQEQYNKLRMMHNSMETLYKELGEYFLFDPKKLS  
VEEFFMDLHNFRNMFLQAVKENQKRRETEEKMRRAKLAKEKAEKERLEKQKREQLIDMNAEGDETGVMD  
SLLEALQSGAAFRKRGRPRQANRKAGCAVTSLLASELTKDDAMA AVPAKVSKNSETFPTILEEAKELVGR  
AS

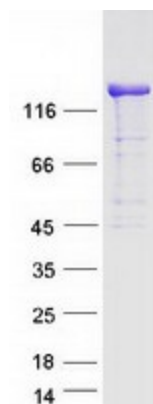
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	140.1 kDa



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<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<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>RefSeq:</b>	<a href="#">NP_001073280</a>
<b>Locus ID:</b>	1729
<b>UniProt ID:</b>	<a href="#">O60610</a>
<b>RefSeq Size:</b>	5777
<b>Cytogenetics:</b>	5q31.3
<b>RefSeq ORF:</b>	3786
<b>Synonyms:</b>	DFNA1; DIA1; DRF1; hDIA1; LFHL1; SCBMS
<b>Summary:</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. [provided by RefSeq, Jul 2008]
<b>Protein Families:</b>	Druggable Genome, Stem cell - Pluripotency
<b>Protein Pathways:</b>	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]).