

## Product datasheet for TP305242

### Dynein intermediate chain 1 (DNAI1) (NM\_012144) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human dynein, axonemal, intermediate chain 1 (DNAI1), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC205242 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MIPASAKSPHKQPHKQSSISIGRGRKRDEDSGTEVGEGETDEWAQSKATVRPPDQLELTD AELKEEFTRIL  
TANNPHAPQNIVRYSFKEGTYKPIGFVNQLAVHYTQVGNLIPKDSDEGRRQHYRDELVAGSQESVKVISE  
TGNLEEDEEPKELETEPGSQTDVPAAGAAEKVTEELMTPKQPKERKLTNQFNFSERASQTCNNPVRDRE  
CQTEPPRRTNFSATANQWEIYDAYVEELEKQEKTKEKEKAKTPVAKKSGKMAMRKLTSMESQTDDLKLS  
QAAKIMERMVNQNTYDDIAQDFKYYDDAADEYRDQVGTLLPLWKFQNDKAKRLSVTALCWNPKYRDLFAV  
GYGSYDFMKQSRGMLLLYSLKNPSFPEYMFSSNSGVMCLDIHVDHPYLVAVGHYDGNVAIYNLKKPHSQP  
SFCSSAKSGKHSDPVWQVKWQKDDMDQNLNFFSVSSDGRIVSWTLVKRKLVIDVIKLVKVEGSTTEVPEG  
LQLHQVGCCTAFDFHKEIDYMFVLVGTGEGKIYKCSKSYSSQFLDYDAHNMSVDTVSWNPYHTKVFMSCS  
SDWTVKIWDHTIKTPMFIYDLNSAVGDVAWAPYSSTVFAAVTTDGGKAHIFDLAINKYEAICNQPVAAKKN  
RLTHVQFNLIHPIIIVGDDRGHIISLKLSPNLRKMPKEKKGQEVQKGPAVEIAKLDKLLNLVREVKIKT

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

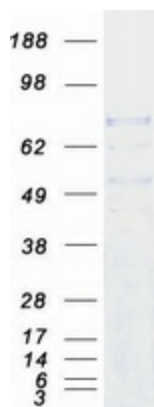
Tag:	C-Myc/DDK
Predicted MW:	79.1 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity 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.



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<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_036276</a>
<b>Locus ID:</b>	27019
<b>UniProt ID:</b>	<a href="#">Q9UI46</a> , <a href="#">A0A140VJI0</a>
<b>RefSeq Size:</b>	2593
<b>Cytogenetics:</b>	9p13.3
<b>RefSeq ORF:</b>	2097
<b>Synonyms:</b>	CILD1; DIC1; ICS1; PCD
<b>Summary:</b>	This gene encodes a member of the dynein intermediate chain family. The encoded protein is part of the dynein complex in respiratory cilia. The inner- and outer-arm dyneins, which bridge between the doublet microtubules in axonemes, are the force-generating proteins responsible for the sliding movement in axonemes. The intermediate and light chains, thought to form the base of the dynein arm, help mediate attachment and may also participate in regulating dynein activity. Mutations in this gene result in abnormal ciliary ultrastructure and function associated with primary ciliary dyskinesia and Kartagener syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Huntington's disease

### Product images:



Coomassie blue staining of purified DNAI1 protein (Cat# TP305242). The protein was produced from HEK293T cells transfected with DNAI1 cDNA clone (Cat# [RC205242]) using MegaTran 2.0 (Cat# [TT210002]).