

Product datasheet for PH314771

Dynamitin (DCTN2) (NM_006400) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	DCTN2 MS Standard C13 and N15-labeled recombinant protein (NP_006391)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC214771
Predicted MW:	44.6 kDa
Protein Sequence:	>RC214771 representing NM_006400 Red=Cloning site Green=Tags(s)

MADPKYADLPGIARNEPDVYETSDLPEDDQAEFDFAQLEELTSTSVEHIIVNPNAAYDKFKDKRVGK
GLDFSDRIGTKRTGYESGEYEMLGEGLGVKETPQQYQRLLEHVQELTTEVEKIKTTVKESATEEKLTP
VLLAKQLAALKQQLVASHLEKLLGPDAAINLTDPDGALAKRLLLQLEATKNSKGGSGGKTTGTPDSSLV
TYELHSRPEQDKFSQAAKVAELEKRLTELETAVRCDQDAQNPLSAGLQGAACLMETVELLQAKVSALDLAV
LDQVEARLQSVLGKVNEIAKHKASVEDADTQSKVHQLYETIQRWSPIASTLPELVQRLVTIKQLHEQAMQ
FGQLLTHLDTTQQMIANSLKDNTLLTQVQTTMRENLATVEGNFASIDERMKKGK

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_006391</u>
RefSeq Size:	1757
RefSeq ORF:	1218
Synonyms:	DCTN50; DYNAMITIN; HEL-S-77; RBP50
Locus ID:	10540



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UniProt ID: [Q13561](#), [V9HW58](#)

Cytogenetics: 12q13.3

Summary: This gene encodes a 50-kD subunit of dynactin, a macromolecular complex consisting of 10-11 subunits ranging in size from 22 to 150 kD. Dynactin binds to both microtubules and cytoplasmic dynein. It is involved in a diverse array of cellular functions, including ER-to-Golgi transport, the centripetal movement of lysosomes and endosomes, spindle formation, chromosome movement, nuclear positioning, and axonogenesis. This subunit is present in 4-5 copies per dynactin molecule. It contains three short alpha-helical coiled-coil domains that may mediate association with self or other dynactin subunits. It may interact directly with the largest subunit (p150) of dynactin and may affix p150 in place. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, May 2012]

Protein Pathways: Huntington's disease

Product images:



Coomassie blue staining of purified DCTN2 protein (Cat# [TP314771]). The protein was produced from HEK293T cells transfected with DCTN2 cDNA clone (Cat# [RC214771]) using MegaTran 2.0 (Cat# [TT210002]).