

Recombinant Human DCTN2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. DCTN2-567H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	DCTN2 MS Standard C13 and N15-labeled recombinant protein (NP_006391) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	44.6 kDa
AA Sequence	MADPKYADLPGIARNEPDVYETSDLPEDDQAEFDFAFAQELELTSTSVEHIIVNPNAAYDKFKDKRVGTKGLDFSDRIGTKRRTGYESGEYEMLGEGLGVKETPQQKYQRLLEH VQELTTEVEKIKTTVKESATEEKLTPVLLAKQLAALKQQLVASHLEKLLGPDAAINLTD

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PDGALAKRLLLQLEATKNSKGGSGGKTTGTPPDSSLVTYELHSRPEQDKFSQAAKV
 AELEKRLTELETAVRCDQDAQNPLSAGLQGACLMETVELLQAKVSALDLAVLDQVE
 ARLQSVLGKVNEIAKHKASVEDADTQSKVHQLYETIQRWSPIASTLPELVQRLVTIKQ
 LHEQAMQFGQLLTHLDTTQQMANSKLDNTTLLTQVQTTMRENLATVEGNFASIDER
 MKKLGKTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name DCTN2 dynactin subunit 2 [Homo sapiens (human)]

Official Symbol DCTN2

Synonyms DCTN2; dynactin 2 (p50); dynactin subunit 2; DCTN 50; RBP50; p50 dynamitin; dynactin complex 50 kD subunit; dynactin complex 50 kDa subunit; 50 kD dynein-associated polypeptide; 50 kDa dynein-associated polypeptide; DCTN50; DYNAMITIN;

Gene ID 10540

mRNA Refseq NM_006400

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Protein Refseq NP_006391

MIM 607376

UniProt ID Q13561

SDS-PAGE



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