

Recombinant human DCTN2, His-tagged

Cat. No. DCTN2-2439H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human DCTN2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	DCTN2 is 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.
Form	Liquid. In 20mM Tris-HCl(pH8.0) containing 20% glycerol, 0.15M NaCl, 1mM DTT
Molecular Mass	46.6kDa (424aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMADPKYA DLPGIARNEP DVYETSDLPE DDQAEFDAEE LTSTSVEHII VNPNAAYDKF KDKRVGKGLDFSDRIGKTK RTGYESGEYE MLGEGLVKE TPQQKYQRL HEVQELTTEV EKIKTTVKES

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

ATEEKLTPVL LAKQLAALKQ QLVASHLEKL LGPDAAINLT DPDGALAKRL
 LLQLEATKNS KGGSGGKTTG TPPDSSLVTY ELHSRPEQDK FSQAAKVAEL
 EKRLTELETA VRCDQDAQNPLSAGLQGACL METVELLQAK VSALDLAVLD
 QVEARLQSVL GKVNEIAKHK ASVEDADTQS KQHLYETIQ RWSPIASTLP
 ELVQRLVTIK QLHEQAMQFG QLLTHLDTTQ QMIANSLKDN TTLTQVQTT
 MRENLATVEG NFASIDERMK KLGK

Purity >90% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [DCTN2 dynactin 2 \(p50\) \[Homo sapiens \]](#)

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
Chromosome Location	12q13.3
Pathway	Cell Cycle, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Centrosome maturation, organism-specific biosystem; G2/M Transition, organism-specific biosystem; Huntingtons disease, organism-specific biosystem; Huntingtons disease, conserved biosystem; Loss of Nlp from mitotic centrosomes, organism-specific biosystem;
Function	motor activity; protein binding;

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