

## Recombinant human DCTN2, His-tagged

Cat. No. DCTN2-2450H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human DCTN2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	Dynactin 2, also known as DCTN2, modulates cytoplasmic dynein binding to an organelle, and plays a role in prometaphase chromosome alignment and spindle organization during mitosis. This protein is involved in anchoring microtubules to centrosomes. This protein may play a role in synapse formation during brain development.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
<b>Molecular Mass</b>	46.9kDa (426aa), confirmed by MALDI-TOF
<b>AA Sequence</b>	MGSSHHHHHHH SSGLVPRGSH MGSMADPKYA DLPGIARNEP DVYETSDLPE DDQAEFDAEL EELTSTSVEH IIVNPNAAYD KFKDKRVGTK GLDFSDRIGK TKRTGYESGE YEMLGEGLV KETPQQKYQR LLHEVQELTT EVEKIKTTVK ESATEEKLTP VLLAKQLAAL KQQLVASHLE KLLGPDAAIN LTDPDGALAK RLLLQLEATK NSKGGSGGKT TGTPPDSSLV TYELHSRPEQ DKFSQAAKVA ELEKRLTELE TAVRCDQDAQ NPLSAGLQGA CLMETVELLQ AKVSALDLAV LDQVEARLQS VLGKVNEIAK HKASVEDADT QSKVHQLYET IQRWSPIAST

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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

LPELVQRLVT IKQLHEQAMQ FGQLLTHLDT TQQMIANSLK DNTTLLTQVQ  
TTMRENLATV EGNFASIDER MKKLGK

**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](#)

**Protein Refseq** [NP\\_006391](#)

**MIM** [607376](#)

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<b>UniProt ID</b>	Q13561
<b>Chromosome Location</b>	12q13.3
<b>Pathway</b>	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;
<b>Function</b>	motor activity; protein binding;

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