Recombinant human DCTN2, His-tagged

Cat. No. DCTN2-2450H **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	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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
Molecular Mass	46.9kDa (426aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMADPKYA DLPGIARNEP DVYETSDLPE DDQAEFDAEL EELTSTSVEH IIVNPNAAYD KFKDKRVGTK GLDFSDRIGK TKRTGYESGE YEMLGEGLGV KETPQQKYQR LLHEVQELTT EVEKIKTTVK ESATEEKLTP VLLAKQLAAL KQQLVASHLE KLLGPDAAIN LTDPDGALAK RLLLQLEATK NSKGGSGGKT TGTPPDSSLV TYELHSRPEQ DKFSQAAKVA ELEKRLTELE TAVRCDQDAQ NPLSAGLQGA CLMETVELLQ AKVSALDLAV LDQVEARLQS VLGKVNEIAK HKASVEDADT QSKVHQLYET IQRWSPIAST

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	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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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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