

DCTN2, 1-406aa, Human, His tag, E.coli

Cat.NO.: TP01843

3th Edition

Synonyms:Dynactin subunit 2 isoform 1, Dynactin 2 (p50), DCTN50, DYNAMITIN, RBP50

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. Recombinant human DCTN2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Form:Liquid. In 20mM Tris-HCl(pH8.0) containing 20% glycerol, 0.15M NaCl, 1mM DTT

Molecular Weight:47.2kDa (429aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMGSMADPKYADLPGIARNEPDVYETSDLPEDDQAEFDFAFAQELEELTSTSVEHIIV
NPNAAYDKFKDKRVGKGLDFSDRIGKTKRTGYESGEYEMLGEGLGVKETPQQKYQRLLHEVQELTTEVEKIKTTV
KESATEEKLTPVLLAKQLAALKQQLVASHLEKLLGPDAAINLTPDGALAKRLLLQLEATKNSKGGSGGKTTGTPPD
SSLVTYELHSRPEQDKFSQAAKVAELEKRLTELETAVRCDQDAQNPLSAGLQGAQLMETVELLQAKVSALDLAVLD
QVEARLQSVLGKVNEIAKHKASVEDADTQSKVHQLYETIQRWSPIASTLPELVQRLVTIKQLHEQAMQFGQLLTHLD
TTQQMIANSLKDNTLLLTQVQTTMRENLATVEGNFASIDERMKKLK

Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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