

AR51259PU-S

Human Dynactin subunit 2 (1-401, His-tag) - Purified

Alternate names:

50 kDa dynein-associated polypeptide, DCTN2, DCTN50, Dynactin 2, Dynactin complex 50 kDa subunit, RBP50, p50 dynamitin

Quantity:

50 µg

Concentration:

0.5 mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:

[Q13561](#)

NCBI:

[NP_001248342](#)

GenelD:

[10540](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS - PAGE

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

Description:

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

AA Sequence:

MGSSHHHHHH SSGLVPRGSH MGSMADPKYA DLPGIARNEP DVEYETSDLPE DDQAEFDAEE
LTSTSVEHII VNPNAAYDKF KDKRVGKGL DFSDRIGTK RTGYESGEYE MLGEGLVGKE
TPQKYQRLL HEVQELTTEV EKIKTIVKES ATEEKLTPLV LAKQLAALKQ QLVASHLEKL
LGPDAAINLT DPDGALAKRL LLQLEATKNS KGGSGGKTTG TPPDSSLVTY ELHSRPEQDK
FSQAAKVAEL EKRLTELETA VRCDQDAQNP LSAGLQGACL METVELLQAK VSALDLAVLD
QVEARLQSVL GKVNEIAKHK ASVEDADTQS KVHQLYETIQ RWSPIASTLP ELVQRLVTIK
QLHEQAMQFG QLLTHLDTTQ QMIANSLKDN TLLTQVQTT MRENLATVEG NFASIDERMK KLGK

Molecular weight: 46.6 kDa (424aa), confirmed by MALDI-TOF

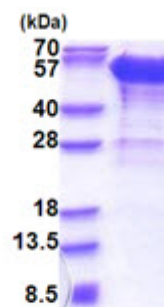
Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.
Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings:

Echeverri C.J., Paschal B.M. et al. (1996), J. Cell Biol. 132:617-633

Pictures:



15% SDS-PAGE (3ug)