Recombinant human Dynactin Subunit 2/DCTN2 protein

Catalog Number: ATGP2439

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-401aa

UniProt No.
Q13561

NCBI Accession No.
NP_001248342

Alternative Names
Dynactin subunit 2 isoform 3, Dynactin 2 (p50), DCTN50, DYNAMITIN, RBP50

PRODUCT SPECIFICATION

Molecular Weight
46.6 kDa (424aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.15M NaCl, 1mM DTT

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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dynactin and may affix p150 in place. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. Recombinant human DCTN2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

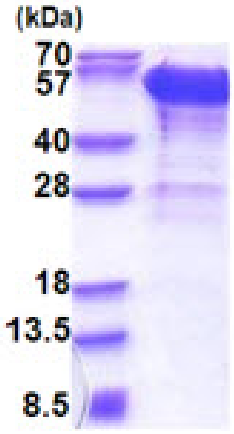
MGSSHHHHHH SSGLVPRGSH MGSMADPKYA DLPGIARNEP DVYETSDLPE DDQAEFDAEE LTSTSVEHII VNPNAAYDKF KDKRVGTKGL DFSDRIGKTK RTGYESGEYE MLGEGLGVKE TPQQKYQRLL HEVQELTTEV EKIKTTVKES ATEEKLTPVL LAKQLAALKQ QLVASHLEKL LGPDAAINLT DPDGALAKRL LLQLEATKNS KGGSGGKTTG TPPDSSLVTY ELHSRPEQDK FSQAAKVAEL EKRLTELETA VRCDQDAQNP LSAGLQGACL METVELLQAK VSALDLAVLD QVEARLQSVL GKVNEIAKHK ASVEDADTQS KVHQLYETIQ RWSPIASTLP ELVQRLVTIK QLHEQAMQFG QLLTHLDTTQ QMIANSLKDN TTLLTQVQTT MRENLATVEG NFASIDERMK KLGK

General References

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

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.