

Recombinant human Dynactin Subunit 2/DCTN2 protein

Catalog Number: ATGP2490

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-406aa

UniProt No.

Q13561

NCBI Accession No.

NP_006391.1

Alternative Names

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

PRODUCT SPECIFICATION

Molecular Weight

47.2 kDa (429aa) 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. 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

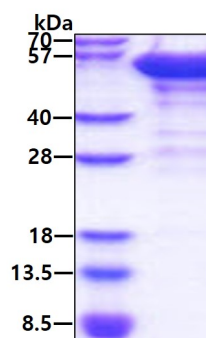
<MGSSHHHHHH SSGLVPRGSH MGS>MADPKYA DLPGIARNEP DVYETSDLPE DDQAEFDAFA QELEELTSTS
VEHIIVNPNA AYDKFKDKRV GTKGLDFSDR IGKTKRTGYE SGEYEMLGEG LGVKETPQQK YQRLLEHVQE LTTEVEKIKT
TVKESATEEK LTPVLLAKQL AALKQQLVAS HLEKLLGPDA AINLTDPDGA LAKRLLLQLE ATKNSKGGSG GKTTGTPPDS
SLVTYELHSR PEQDKFSQAA KVAELEKRLT ELETAVRCDQ DAQNPLSAGL QGACLMETVE LLQAKVSALD LAVLDQVEAR
LQSVLGKVNE IAKHKASVED ADTQSKVHQL YETIQRWSPI ASTLPELVQR LVTIKQLHEQ AMQFGQLLTH LDTTQQMIAN
SLKDNTTLLT QVQTTMRENL ATVEGNFASI DERMKKLGK

General References

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

DATA

SDS-PAGE



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