

Active Recombinant Full Length Human DCTN2 Protein, C-Flag-tagged

Cat. No. DCTN2-364HFL Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant Full Length Human DCTN2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.

Species

Human

Source

Mammalian Cells

Description

This gene encodes 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.

Form

25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.

Bio-activity

Co-immunoprecipitation

Molecular Mass

44.6 kDa

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AA Sequence

MADPKYADLPGIARNEPDVYETSDLPEDDQAEFDFAFAQELEELTSTSVEHIIVNPNAAYDKFKDKRVGTK GLDFSDRIGTKTKRTGYESGEYEMLGEGLVKETPQQKYQRLLHEVQELTTEVEKIKTTVKESATEEKLTP VLLAKQLAALKQQLVASHLEKLLGPDAAINLTDPDGALAKRLLLQLEATKNSKGGSGGKTTGTPPDSSLV TYELHSRPEQDKFSQAAKVAELEKRLTELETAVRCDQDAQNPLSAGLQGACLMETVELLQAKVSALDLAV LDQV EARLQSVLGKVNEIAKHKASVEDADTQSKVHQLYETIQRWSPIASTLPELVQRLVTIKQLHEQAMQ
FGQLLTHLDTTQQMIANSLKDNTLLTQVQTTMRENLATVEGNFASIDERMKKGKTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining.

Stability Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade.

Concentration >50 ug/mL as determined by microplate BCA method.

Preparation Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Protein Pathways Huntington's disease

Full Length Full L.

GENE INFORMATION

Gene Name [DCTN2 dynactin subunit 2 \[Homo sapiens \(human\) \]](#)

Official Symbol [DCTN2](#)

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Synonyms	RBP50; DCTN50; HEL-S-77; DYNAMITIN
Gene ID	10540
mRNA Refseq	NM_006400.5
Protein Refseq	NP_006391.1
MIM	607376
UniProt ID	Q13561



Coomassie blue staining of purified DCTN2 protein.

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