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DCTN2 (1-403) Human

Dynactin 2 (1-403 a.a.) Human Recombinant
RCP0622

Product Overview

Name	DCTN2 (1-403) Human

Description

Dynactin 2 (1-403 a.a.) Human Recombinant

Accession (Primary)	Q13561

Synonyms

Dynactin 2 (P50), 50 KDa Dynein-Associated Polypeptide, Dynactin Complex 50 KDa Subunit, P50 Dynamitin, DCTN50, 50 KD Dynein-Associated Polypeptide, Epididymis Secretory Protein Li 77, Dynactin Complex 50 KD Subunit, DYNAMITIN, HEL-S-77, DCTN-50, RBP50.

Introduction

DCTN2 is a 50kDa subunit of dynactin, which is a macromolecular complex consisting of 10-11 subunits ranging in size from 22 to 150 kDa. Dynactin binds to both microtubules and cytoplasmic dynein. Dynactin is involved in a various cellular functions, including ER-to-Golgi transport, the centripetal movement of lysosomes and endosomes, spindle formation, chromosome movement, nuclear positioning, and axonogenesis. The DCTN2 subunit is present in 4-5 copies per dynactin molecule. DCTN2 is comprised of 3 short alpha-helical coiled-coil domains which mediate association with self or other dynactin subunits. DCTN2 interacts directly with the largest subunit (p150) of dynactin and is able to affix p150 in place. DCTN2 modulates cytoplasmic dynein binding to an organelle, and plays a part in prometaphase chromosome alignment and spindle organization during mitosis. DCTN2 is involved in anchoring microtubules to centrosomes. DCTN2 has a role in synapse formation during brain development.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered colorless solution.

Formulation

DCTN2 protein solution (0.5mg/ml) containing 20mM Tris-HCl (pH8.0), 10% glycerol, 0.15M NaCl and 1mM DTT.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Purity

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Greater than 90.0% as determined by SDS-PAGE.

Amino acid sequence

MGSSHHHHHH SSGLVPRGSH MGS MADPKYA DLPGIARNEP DVYETSDLPE DDQAEFDAEL EELTSTSVEH IIVNPNAAYD KFKDKRVGTK GLDFSDRIGK TKRTGYESGE YEMLGEGLGV KETPQQKYQR LLHEVQELTT EVEKIKTTVK ESATEEKLTP VLLAKQLAAL KQQLVASHLE KLLGPDAAIN LTDPDGALAK RLLLQLEATK NSKGGSGGKT TGTPPDSSLV TYELHSRPEQ DKFSQAAKVA ELEKRLTELE TAVRCDQDAQ NPLSAGLQGA CLMETVELLQ AKVSALDLAV LDQVEARLQS VLGKVNEIAK HKASVEDADT QSKVHQLYET IQRWSPIAST LPELVQRLVT IKQLHEQAMQ FGQLLTHLDT TQQMIANSLK DNTTLLTQVQ TTMRENLATV EGNFASIDER MKKLGK

Precautions

DCTN2 (1-403) Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q13561)