9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

DCTN2 (1-406) Human

Dynactin 2 (1-406 a.a.) Human Recombinant
RCP0623

Product Overview

Name	DCTN2 (1-406) Human
Description	
Dynactin 2 (1-406 a.a.) Human Recombinant	
Accession (Primary)	Q13561
Synonyms	
DCTN2, Dynactin 2 (P50), DCTN50, Dynactin Complex 50 KDa Subunit, 50 KDa Dynein-Associated Polypeptide, P50 Dynamitin, 50 KD Dynein-Associated Polypeptide, DYNAMITIN, HEL-S-77, RBP50, Dynactin Complex 50 KD Subunit, Dynactin Subunit 2, Epididymis Secretory Protein Li 77, DCTN-50.	
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), 20% 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 DDQAEFDAFA QELEELTSTS VEHIIVNPNA AYDKFKDKRV GTKGLDFSDR IGKTKRTGYE SGEYEMLGEG LGVKETPQQK YQRLLHEVQE 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.

Precautions

DCTN2 (1-406) Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q13561)