Recombinant Full Length Human DCTN2 Protein, GST-tagged

Cat. No. DCTN2-2939HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human DCTN2 full-length ORF (AAH00718.1, 1 a.a. - 401 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	401 amino acids
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. [provided by RefSeq, May 2012]
Molecular Mass	70.6 kDa
AA Sequence	MADPKYADLPGIARNEPDVYETSDLPEDDQAEFDAEELTSTSVEHIIVNPNAAYDKFK DKRVGTKGLDFSDRIGKTKRTGYESGEYEMLGEGLGVKETPQQKYQRLLHEVQELT

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	TEVEKIKTTVKESATEEKLTPVLLAKQLAALKQQLVASHLEKLLGPDAAINLTDPDGAL AKRLLLQLEATKNSKGGSGGKTTGTPPDSSLVTYELHSRPEQDKFSQAAKVAELEK RLTELETAVRCDQDAQNPLSAGLQGACLMETVELLQAKVSALDLAVLDQVEARLQS VLGKVNEIAKHKASVEDADTQSKVHQLYETIQRWSPIASTLPELVQRLVTIKQLHEQA MQFGQLLTHLDTTQQMIANSLKDNTTLLTQVQTTMRENLATVEGNFASIDERMKKLG K
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	DCTN2 dynactin 2 (p50) [Homo sapiens]
Official Symbol	DCTN2
Synonyms	DCTN2; dynactin 2 (p50); dynactin subunit 2; DCTN 50; RBP50; p50 dynamitin; dynactin complex 50 kD subunit; dynactin complex 50 kDa subunit; 50 kD dynein-associated polypeptide; 50 kDa dynein-associated polypeptide; DCTN50; DYNAMITIN;
Gene ID	10540

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mRNA Refseq	NM_006400
Protein Refseq	NP_006391
MIM	607376
UniProt ID	Q13561

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