Recombinant Human DCTN3, GST-tagged

Cat. No. DCTN3-11866H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DCTN3 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-186a.a.
Description	This gene encodes the smallest subunit of dynactin, a macromolecular complex consisting of 10 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, cytokinesis, chromosome movement, nuclear positioning, and axonogenesis. This subunit, like most other dynactin subunits, exists only as a part of the dynactin complex. It is primarily an alpha-helical protein with very little coiled coil, and binds directly to the largest subunit (p150) of dynactin. Alternative splicing of this gene generates 2 transcript variants.
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100,15%glycerol.

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GENE INFORMATION

Gene Name	DCTN3 dynactin 3 (p22) [Homo sapiens]
Official Symbol	DCTN3
Synonyms	DCTN3; dynactin 3 (p22); dynactin subunit 3; DCTN 22; p22; dynactin light chain; dynactin 3, isoform 1; dynactin complex subunit 22 kDa subunit; DCTN22; DCTN-22; MGC111190;
Gene ID	11258
mRNA Refseq	NM_007234
Protein Refseq	NP_009165
MIM	607387
UniProt ID	O75935
Chromosome Location	9p13
Pathway	Cell Cycle, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Centrosome maturation, organism-specific biosystem; G2/M Transition, organism-specific biosystem; Loss of Nlp from mitotic centrosomes, organism-specific biosystem; Loss of proteins required for interphase microtubule organization??from the centrosome, organism-specific biosystem; Mitotic G2-G2/M phases, organism-specific biosystem;
Function	protein binding; structural molecule activity;

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