

Recombinant Full Length Human DCTN1 Protein, GST-tagged

Cat. No. DCTN1-2938HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human DCTN1 full-length ORF (AAH06163, 1 a.a. - 198 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	198 amino acids
Description	This gene encodes the largest 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. Dynactin 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 interacts with dynein intermediate chain by its domains directly binding to dynein and binds to microtubules via a highly conserved glycine-rich cytoskeleton-associated protein (CAP-Gly) domain in its N-terminus. Alternative splicing of this gene results in multiple transcript variants encoding distinct isoforms. Mutations in this gene cause distal hereditary motor neuronopathy type VIIB (HMN7B) which is also known as distal spinal and bulbar muscular atrophy (dSBMA). [provided by RefSeq, Oct 2008]
Molecular Mass	47.52 kDa
AA Sequence	MPGPGLVKDSPLLLQQISAMRLHISQLQHENSILKGAQMKASLASLPPLHVAKLSHE

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GPGSELPAGALYRKTSQ LLETNLQLSTHVV DITRTSPA AKSPSAQLMEQVAQLKS
 LSDTVEK LKDEV LKETVSQRPGATVPTDFATFPSSAFLRAKEEQQDDTVYMGKVTF
 SCAAGFGQRHRLVLTQEQLHQLHSRLIS

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

[DCTN1 dynactin 1 \[Homo sapiens \]](#)

Official Symbol

[DCTN1](#)

Synonyms

DCTN1; dynactin 1; dynactin 1 (p150, Glued (Drosophila) homolog); dynactin subunit 1; p150 glued homolog (Drosophila); 150 kDa dynein-associated polypeptide; dynactin 1 (p150, glued homolog, Drosophila); P135; DP-150; DAP-150;

Gene ID

[1639](#)

mRNA Refseq

[NM_001135040](#)

Protein Refseq

[NP_001128512](#)

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MIM	601143
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UniProt ID	Q14203
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