

# Recombinant Full Length Human DCTN1 Protein, GST-tagged

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

## SPECIFICATION

<b>Product Overview</b>	Human DCTN1 full-length ORF ( AAH06163, 1 a.a. - 198 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	198 amino acids
<b>Description</b>	<p>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 neuropathy type VIIB (HMN7B) which is also known as distal spinal and bulbar muscular atrophy (dSBMA). [provided by RefSeq, Oct 2008]</p>
<b>Molecular Mass</b>	47.52 kDa
<b>AA Sequence</b>	MPGPGLVKDSPLLLQQISAMRLHISQLQHENSILKGAQMKASLASLPPLHVAKLSHE

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GPGSELPAGALYRKTSQLETLNQLSTHVVVDITRTSPAASKPSAQLMEQVAQLKS  
 LSDTVEKCLKDEVKETSQRPGATVPTDFATFPSSAFLRAKEEQDDTVYMGKVTF  
 SCAAGFGQRHRLVLTQEQLHQLHSRLIS

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

## GENE INFORMATION

<b>Gene Name</b>	DCTN1 dynactin 1 [ Homo sapiens ]
<b>Official Symbol</b>	DCTN1
<b>Synonyms</b>	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;
<b>Gene ID</b>	1639
<b>mRNA Refseq</b>	NM_001135040
<b>Protein Refseq</b>	NP_001128512

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<b>MIM</b>	601143
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<b>UniProt ID</b>	Q14203
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