

Recombinant Human DCTN1 Protein, GST-tagged

Cat. No. DCTN1-2410H 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	Wheat Germ
Description	<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>
Molecular Mass	47.52 kDa
AA Sequence	MPGPGLVKDSPLLLQQISAMRLHISQLQHENSILKGAQMKASLASLPPLHVAKLSHE GPGSELPAGALYRKTSQLETLNQLSTHTHVVDITRTSPAAKSPSAQLMEQVAQLKS

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LSDTVEKLLKDEVLKETVSQRPGATVPTDFATFPSSAFLRAKEEQDDTVYMGKVTF
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
MIM	601143

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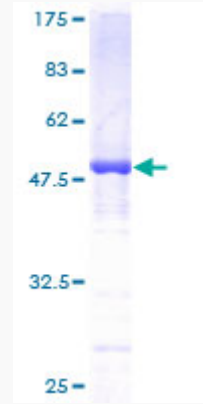
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UniProt ID

Q14203

Quality Control

Testing:



12.5% SDS-PAGE Stained with Coomassie Blue.

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