

Recombinant Human UNC45B Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. UNC45B-096H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	UNC45B MS Standard C13 and N15-labeled recombinant protein (NP_775259) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a co-chaperone required for folding and accumulation of type II myosins. The protein consists of three tetratricopeptide repeat motifs at the N-terminus that form a complex with heat shock protein 90, a central region of unknown function that is conserved in all Unc-45 proteins, and a C-terminal Unc-45/Cro1/She4 domain. The protein is expressed at high levels in striated muscle, where its muscle myosin chaperone activity is dependent on heat shock protein 90 acting as a co-chaperone. A missense mutation in this gene has been associated with cataract development. Alternative splicing results in multiple transcript variants.
Molecular Mass	103.6 kDa
AA Sequence	MAEVEAVQLKEEGNRHFQLQDYKAATNSYSQALKLTKDKALLATLYRNRAACGLKT ESYIQAASDASRAIDINSSDIKALYRRCQALEHLGKLDQAFKDVQRCATLEPRNQNF QEMLRRLNTSIQEKLRVQFSTDSRVQKMFEILLDENSEADKREKAANNLIVLGREEA GAEKIFQNNGVALLLQLLDTKKPELVLAARTLSGMCSGHQARATVILHAVRIDRICS LMAVENEEMSLAVCNLLQAIIDSLSGEDKREHRGKEEALVLDTKKDLKQITSHLLDML

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VSKKVSGQGRDQALNLLNKNVPRKDLAIHDNSRTIYVVDNGLRKILKVVGGQVPDLPS
CLPLTDNTRMLASILINKLYDDLRCDPERDHFRCICEEYITGKFDPQDMDKNLNAIQT
VSGILQGPFDLGNQLLGLKGVMEMMVALCGSERETDQLVAVEALIHASTKLSRATFII
TNGVSLKQIYKTTKNEKIKIRTLVGLCKLGSAGGTDYGLRQFAEGSTEKLAKQCRK
WLCNMSIDTRTRRWAVEGLAYLTLDADVKDDFVQDVPALQAMFELAKXXTSDKTILY
SVATTLVNCTNSYDVKEVIPELVQLAKFSKQHVPEEHPKDKKDFIDMRVKRLLKAGVI
SALACMVKADSAILTDQTKELLARVFLALCDNPKDRGTIVAQGGGKALIPLALEGTDV
GKVKAAHALAKIAAVSNPDIAFPGERVYEVVRPLVRLLDTQRDGLQNYEALLGLTNLS
GRSDKLRQKIFKERALPDNIENYMFENHDQLRQAATECMCNMVLHKEVQERFLADGN
DRLKLVLLCGEDDDKVQNAAGALAMLTAAHKKLCLKMTQVTTQWLEILQRLCLH
DQLSVQHRGLVIAYNLLAADAELAKKLVESELLEILTVVGKQEPDEKKAIEVVQTAREC
LIKCMDYGFIPVSTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name UNC45B unc-45 myosin chaperone B [Homo sapiens (human)]

Official Symbol UNC45B

Synonyms UNC45B; unc-45 myosin chaperone B; CMYA4; CTRCT43; SMUNC45; UNC-45B;

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UNC45; protein unc-45 homolog B; cardiomyopathy associated 4; striated muscle
UNC45; unc-45 homolog B

Gene ID [146862](#)

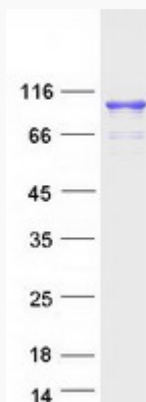
mRNA Refseq [NM_173167](#)

Protein Refseq [NP_775259](#)

MIM [611220](#)

UniProt ID [Q8IWX7](#)

SDS-PAGE



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