

Recombinant Full Length Human UNC45B Protein, C-Flag-tagged

Cat. No. UNC45B-1933HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human UNC45B Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	103.6 kDa
AA Sequence	MAEVEAVQLKEEGNRHFQLQDYKAATNSYSQALKLTKDKALLATLYRNRAACGLKT ESYIQAASDASRAI DINSSDIKALYRRCQALEHLGKLDQAFKDVQRCATLEPRNQNF QEMLRRLNTSIQEKLRVQFSTDSRVQK MFEILLDENSEADKREKAANNLIVLGREEA GAEKIFQNNGVALLLQLLDTKKPELVLAARTLSGMCSGH QARATVILHAVRIDRICS

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LMAVENEEMSLAVCNLLQAIIDSLSGEDKREHRGKEEALVLDTKKDLKQITS HLLDM
 LVSKKVSGQGRDQALNLLNKNVPRKDLAIHDNSRTIYVVDNGLRKILKVVGVQVPDLP
 SCLPLTDN TRMLASILINKLYDDLRCDDPERDHFRKICEEYITGKFDPQMDKNLNAIQ
 TVSGILQGPFDLGNQLLGLK GVMEMMVALCGSERETDQLVAVEALIHASTKLSRAT
 FIITNGVSLLKQIYKTTKNEKIKIRTLVGLCKLG SAGGTDYGLRQFAEGSTEKLAKQCR
 KWLCNMSIDTRTRRWAVEGLAYLTLDADVKKDDFVQDVPALQAMFE LAKXXTSDKTI
 LYSVATTLVNCTNSYDVKEVIPELVQLAKFSKQHVPEEHPKDKKDFIDMRVKRLLKA
 GV ISALACMVKADSAILTDQTKELLARVFLALCDNPKDRGTIVAQGGGKALIPALEG
 TDVGKVKAHALAK IAAVSNPDIAFPGERVYEVVRPLVRLLDTQRDGLQNYEALLGL
 TNLSGRSDKLRQKIFKERALPDIENYM FENHDQLRQAATECMCNMVLHKEVQERFL
 ADGNDRLKLVLLCGEDDDKVQNAAGALAMLTAAHKKLCL KMTQVTTQWLEILQR
 LCLHDQLSVQHRGLVIAYNLLAADAELAKKLVESELLEILTVVGKQEPDEKKAEV VQT
 ARECLIKCMDYGFIPVS TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Full Length	Full L.

GENE INFORMATION

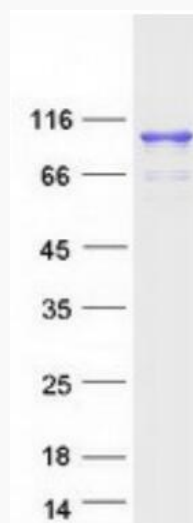
Gene Name **UNC45B** *unc-45 myosin chaperone B* [*Homo sapiens (human)*]

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Official Symbol	UNC45B
Synonyms	CMYA4; MFM11; UNC45; CTRCT43; SMUNC45; UNC-45B
Gene ID	146862
mRNA Refseq	NM_173167.3
Protein Refseq	NP_775259.1
MIM	611220
UniProt ID	Q8IWX7



Coomassie blue staining of purified UNC45B protein.

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