

Recombinant Human FLNA Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. FLNA-5086H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	FLNA MS Standard C13 and N15-labeled recombinant protein (NP_001104026) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is an actin-binding protein that crosslinks actin filaments and links actin filaments to membrane glycoproteins. The encoded protein is involved in remodeling the cytoskeleton to effect changes in cell shape and migration. This protein interacts with integrins, transmembrane receptor complexes, and second messengers. Defects in this gene are a cause of several syndromes, including periventricular nodular heterotopias (PVNH1, PVNH4), otopalatodigital syndromes (OPD1, OPD2), frontometaphyseal dysplasia (FMD), Melnick-Needles syndrome (MNS), and X-linked congenital idiopathic intestinal pseudoobstruction (CIIPX). Two transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	280.6 kDa
AA Sequence	MSSSHSRAGQSAAGAAPGGGVDRDAEMPATEKDLAEDAPWKKIQQNTFTRWCN EHLKCVSKRIANLQTDLSGLRLIALLEVLSQKKMHRKHNQRPTFRQMQLENVSV EFLDRESIKLVSIDSKAIVDGNLKLILGLIWTLLHYSISMPMWDEEEDDEAAKKQTPKQ RLLGWIQNKLPQLPITNFSRDWQSGRALGALVDSCAPGLCPDWDSWDASKPVTNA

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REAMQQADDWLGIPQVITPEEIVDPNVDEHSVMTYLSQFPKAKLKPGAPLRPKLNPK
KARAYGPGIEPTGNMVKKRAEFTVETRSGAQGEVLVYVEDPAGHQEEAKVTANND
KNRTFSVWYVPEVTGTHKVTVLFAGQHIAKSPFEVYVDKSQGDASKVTAQGPGLP
SGNIANKTTYFEIFTAGAGTGEVEVVIQDPMGQKGTVEPQLEARGDSTYRCSYQPT
MEGVHTVHVTFAGVPIPRSPYTVTVGQACNPSACRAVGRGLQPKGVRVKETADFK
VYTKGAGSGELKVTVKGPKEERVVKQKDLGDGVYGFYYPMPGTIYITITWGGQ
NIGRSPFEVKVGTECGNQKVRWGPGLGGVVGKSADFVVEAIGDDVGTLGFSVE
GPSQAKIECDDKGDGSCDVRYPQEAAGEYAVHVLCSNEDIRLSPFMADIRDAQDF
HPDRVKARGPGLKGTGAVNKP AEFTVDAKHGGKAPLRVQVQDNEGCPVEALVKD
NGNGTYSYVPRKPVKHTAMVSWGGVSIPNSPFRVNVGAGSHPNKVKVYGPVGA
KTGLKAHEPTYFTVDCAEAGQGDV SIGIKCAPGVVGP AEADIDFDIIRNDNDTFTVKY
TPRGAGSYTIMVLFADQATPTSPIRVKVEPSHDASKVKAEGPGLSRTGVELGKPTHF
TVNAKAAGKGKLDVQFSGLTGDAVRDVIDDHDNTYTVKYTPVQQGPVGVNVTY
GGDPIKSPFSVAVSPSLDLSKIKVSGLGEKVDVGKDQEFTVKS KGAGGQGVASKI
VGPSGAAPCKVEPGLGADNSVVRFLPREEGPYEVEVTDGVPVPGSPFPLEAVAP
TKPSKVKAFGPGLQGGSSAGSPARFTIDTKGAGTGGLGLTVEGPCEAQLECLDNGD
GTCSVSYVPTPEPGDYNINILFADTHIPGSPFKAHVVP CF DASKVKCSGPGLERATAG
EVGQFQVDCSSAGSAELTIEICSEAGLPAEVYIQDHGDGTHITITYIPLCPGAYTVTIKY
GGQVPVPNFPSKLQVEPAVDTSGVQCYGPGIEGQGVFREATT EFSVDARALTQTGG
PHVKARVANPSGNLTETYVQDRGDGMKYVEYTPYEEGLHSVDVTYDGSPVPSSPF
QVPVTEGCDPSRVRVHGP G I QSGTTNKP NKFTVETRGAGTGGLGLAVEGPSEAKM
SCMDNKDGSCSVEYIPYEAGTYS LNV TYGGHQVPGSPFKVPVHDVTDASKVKCSG
PGLSPGMVRANLPQSFQVDTSKAGVAPLQVKVQGPKGLVEPVDVVDNADGTQTVN
YVPSREGPYSISVLYGDEEVPRSPFKVKVLPTH DASKVKASGPGLNTTGVPASLPVE
FTIDAKDAGEGLLAVQITDPEGKPKKTHIQDNHDGTYTVAYVPDVTGRYTILIKYGGD
EIPFSPYRVRAVPTGDASKCTVTVSIGGHGLGAGIGPTIQIGEETVITVDTKAAGKGKV
TCTVCTPDGSEVDVDVVENEDGTFDIFYTAPQPGKYVICVRFGGEHVPNSPFQVTAL
AGDQPSVQPPLRSQQLAPQYTYAQGGQQTWAPERPLVGVNGLDVTSLRPFDLVIP
FTIKKGEITGEVRMPSGKVAQPTITDNKDGTVTVRYAPSEAGLHEMDIRYDNMHIPG
SPLQFYVDYVNCGHVTAYGPGLTHGVVNKPATFTVNTKDAGEGGLSLAIEGPSKAEI

SCTDNQDGTCSVSYLPVLPGDYSILVKYNEQHVPGPSFTARVTGDDSMRMSHLKV
 GSAADIPINISSETDLSLLTATVPPSGREEPCLLKRLRNHGVGISFVPKETGEHLVHVK
 KNGQHVASSPIPVVISQSEIGDASRVRVSGQGLHEGHTFEPAEFIIDTRDAGYGGLSL
 SIEGPSKVDINTEDLEDGTCRVTYCPTPEGNYIINIKFADQHVPGPSFVSVKVTGEGRV
 KESITRRRRAPSVANVGSHCDLSLKIPEISIQDMTAQVTSPSGKTHEAEIVEGENHTY
 CIRFVPAEMGHTHTVSVKYKGQHVPGPSFQFTVGPLGEGGAHKVRAGGPGLERAEA
 GVPAEFSIWTRAGAGGLAIAVEGPSKAEISFEDRKDGSCGVAYVVQEPGDYEVS
 KFNEEHIPDSPFVVPVASPSGDARRLTVSSLQESGLKVNQPASFAVSLNGAKGAIDA
 KVHSPSGALEECYVTEIDQDKYAVRFIPRENGVYLIDVKFNGTHIPGPSPFKIRVGE
 HGGDPGLVSAYGAGLEGVTGNPAEFVNTSNAGAGALSVTIDGPSKVKMDCQEC
 PEGYRVTYTPMAPGSYLISIKYGGPYHIGGSPFKAKVTGPRLVSNHSLHETSSVFVD
 SLTKATCAPQHGAPGPGPADASKVVAKGLGLSKAYVGQKSSFTVDCSKAGNNMLL
 VGVHGPRTPCEEILVKHVGSRLYSVSYLLKDKGEYTLVVKWGDEHIPGSPYRVVPT
 RTRPLEQKLISEEDLAANDILDYKDDDDKV

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 FLNA filamin A [Homo sapiens (human)]

Official Symbol FLNA

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Synonyms	FLNA; filamin A, alpha; filamin A, alpha (actin binding protein 280), FLN, FLN1, OPD1, OPD2; filamin-A; ABP 280; actin binding protein 280; filamin-1; alpha-filamin; non-muscle filamin; endothelial actin-binding protein; FLN; FMD; MNS; OPD; ABPX; CVD1; FLN1; NHBP; OPD1; OPD2; XLVD; XMVD; FLN-A; ABP-280; FLJ43642; DKFZp434P031;
Gene ID	2316
mRNA Refseq	NM_001110556
Protein Refseq	NP_001104026
MIM	300017
UniProt ID	P21333
SDS-PAGE	