

Recombinant Human FLNA, His-tagged

Cat. No. FLNA-28906TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 1730-2639 of Human Filamin A Isoform 2 with N terminal His Tag; Predicted MWt 97 kDa.
Species	Human
Source	E.coli
ProteinLength	1730-2639 a.a.
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.
Conjugation	HIS
Tissue specificity	Ubiquitous.
Form	Lyophilised:Reconstitute with 111 µl aqua dest.

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Storage buffer	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	<p>VTALAGDQPSVQPPLRSQQLAPQYTYAQQGGQQTWAPERPL VGVNGLDVTSLRPF DLVIPFTIKKGEITGEVRMPSGKV AQPTITDNKDGTVTVRYAPSEAGLHEMDIRYDN MHIPG SPLQFYVDYVNCGHVTAYGGLTHGVVNKPATFTVNTK DAGEGGLSLAIE GPSKAEISCTDNQDGTCSVSYLPVLPGDYSILVKYNEQHVP GSPFTARVTGDDSMR MSHLKVGSAADIPINISSETDLSLLTATVPPSGREEPCLLKRLRNGHV GISFVPKETG EHLVHVKKNGQHVASSPIPVVISQSEIG DASRVRVSGQGLHEGHTFEPAEFIIDTRD AGYGGLSLS IEGPSKVDINTEDLEDGTCRVTYCPTTEPGNYIINIKFADQHVP GSPFSV KVTGEGRVKESITRRRRAPSVANV GSHCD LSLKIPEISIQDMAQVTSPSGKTHEAEI VEGENHTYC IRFVPAEMGHTHTVSVKYKGQHVPGSPFQFTVGPLGEGG AHKVRAG GGLERAEAGVPAEFSIW TREAGAGGLAIAV EGPSKAEISFEDRDKD GSCGVAYVVQ EPGDYEVSVKFNEEHIPDSPFVVPV ASPSGDARRLTVSS LQESGLKVNQPASF AVS LNGAKGAIDAKVHSPSGALEECYVTEIDQDKYAVR FIPRENGVYLIDVKFNGTHIPGS PFKIRVGEPPGHGGDP GLVSAYGAGLEGGVTGNPAEFVNTSNAGAGALSVTID GP SKVKMDCQECPEGYRVTYTPMAPGSYLISIKYGGPYHIGGSPFKAKVTGPRLVSNH SLHETSSVFVDSLTKATCAP QHGAPGPGPADASKV VAKGLGLSKAYVGQKSSFTV DCS KAGNNMLLVGVHGPRTPC EEILVKHVGSRLYSVSYLLK DKGEYTLVVKWGDE HIPGSPYRVVVP</p>
Sequence Similarities	Belongs to the filamin family. Contains 1 actin-binding domain. Contains 2 CH (calponin-homology) domains. Contains 24 filamin repeats.

GENE INFORMATION

Gene Name	FLNA filamin A, alpha [Homo sapiens]
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Official Symbol	FLNA
Synonyms	FLNA; filamin A, alpha; filamin A, alpha (actin binding protein 280) , FLN, FLN1, OPD1, OPD2; filamin-A; ABP 280; actin binding protein 280;
Gene ID	2316
mRNA Refseq	NM_001110556
Protein Refseq	NP_001104026
MIM	300017
Uniprot ID	P21333
Chromosome Location	Xq28
Pathway	Androgen Receptor Signaling Pathway, organism-specific biosystem; Cell junction organization, organism-specific biosystem; Cell-Cell communication, organism-specific biosystem; Cell-extracellular matrix interactions, organism-specific biosystem; Focal Adhesion, organism-specific biosystem;
Function	Fc-gamma receptor I complex binding; GTP-Ral binding; Rac GTPase binding; Rho GTPase binding; actin binding;

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