Recombinant Human LDB3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. LDB3-1539H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	LDB3 MS Standard C13 and N15-labeled recombinant protein (NP_001073585) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a PDZ domain-containing protein. PDZ motifs are modular protein-protein interaction domains consisting of 80-120 amino acid residues. PDZ domain-containing proteins interact with each other in cytoskeletal assembly or with other proteins involved in targeting and clustering of membrane proteins. The protein encoded by this gene interacts with alpha-actinin-2 through its N-terminal PDZ domain and with protein kinase C via its C-terminal LIM domains. The LIM domain is a cysteine-rich motif defined by 50-60 amino acids containing two zinc-binding modules. This protein also interacts with all three members of the myozenin family. Mutations in this gene have been associated with myofibrillar myopathy and dilated cardiomyopathy. Alternatively spliced transcript variants encoding different isoforms have been identified; all isoforms have N-terminal PDZ domains while only longer isoforms (1, 2 and 5) have C-terminal LIM domains.
Molecular Mass	30.8 kDa
AA Sequence	MSYSVTLTGPGPWGFRLQGGKDFNMPLTISRITPGSKAAQSQLSQGDLVVAIDGVN

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	TDTMTHLEAQNKIKSASYNLSLTLQKSKRPIPISTTAPPVQTPLPVIPHQKVVVNSPAN ADYQERFNPSALKDSALSTHKPIEVKGLGGKATIIHAQYNTPISMYSQDAIMDAIAGQ AQAQGSDFSGSLPIKDLAVDSASPVYQAVIKSQNKPEDEADEWARRSSNLQSRSFR ILAQMTGTEFMQDPDEEALRRSRERFETERNSPRFAKLRNWHHGLSAQILNVKSTR TRPLEQKLISEEDLAANDILDYKDDDDKV
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	LDB3 LIM domain binding 3 [Homo sapiens (human)]
Official Symbol	LDB3
Synonyms	LDB3; LIM domain binding 3; LIM domain-binding protein 3; cypher; KIAA0613; oracle; PDLIM6; ZASP; protein cypher; PDZ and LIM domain 6; Z-band alternatively spliced PDZ-motif protein; CMD1C; LVNC3; CYPHER; LDB3Z1; LDB3Z4; ORACLE; FLJ35865; KIAA01613;
Gene ID	11155
mRNA Refseq	NM_001080116

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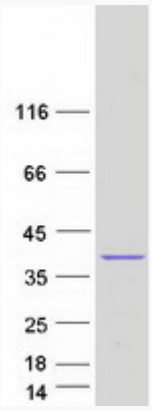
Protein Refseq	NP_001073585
MIM	605906
UniProt ID	O75112
SDS-PAGE	

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