# LDB3 Polyclonal Antibody

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| **Catalog No** | YP-Ab-07327 |
| **Isotype** | IgG |
| **Reactivity** | Human;Mouse |
| **Applications** | WB;ELISA |
| **Gene Name** | LDB3 KIAA0613 ZASP |
| **Protein Name** | LIM domain-binding protein 3 (Protein cypher) (Z-band alternatively spliced PDZ-motif protein) |
| **Immunogen** | Synthesized peptide derived from human protein . at AA range: 41-90 |
| **Specificity** | LDB3 Polyclonal Antibody detects endogenous levels of protein. |
| **Formulation** | Liquid in PBS containing 50% glycerol, and 0.02% sodium azide. |
| **Source** | Polyclonal, Rabbit,IgG |
| **Purification** | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| **Dilution** | WB 1:500-2000 ELISA 1:5000-20000 |
| **Concentration** | 1 mg/ml |
| **Purity** | ≥90% |
| **Storage Stability** | -20°C/1 year |
| **Synonyms** | |
| **Observed Band** | 79kD |
| **Cell Pathway** | Cytoplasm, perinuclear region . Cell projection, pseudopodium . Cytoplasm, cytoskeleton . Cytoplasm, myofibril, sarcomere, Z line . Localized to the cytoplasm around nuclei and pseudopodia of undifferentiated cells and detected throughout the myotubes of differentiated cells. Colocalizes with ACTN2 at the Z-lines. |
| **Tissue Specificity** | Expressed primarily in skeletal muscle and to a lesser extent in heart. Also detected in brain and placenta. |
| **Function** | disease:Defects in LDB3 are a cause of dilated cardiomyopathy with left ventricular non-compaction [MIM:601493]. Left ventricular non-compaction is characterized by numerous prominent trabeculations and deep intertrabecular recesses in hypertrophied and hypokinetic segments of the left ventricle.,disease:Defects in LDB3 are the cause of cardiomyopathy dilated type 1C (CMD1C) [MIM:601493]. Dilated cardiomyopathy is a disorder characterized by ventricular dilation and impaired systolic function, resulting in congestive heart failure and arrhythmia. Patients are at risk of premature death.,disease:Defects in LDB3 are the cause of ZASP-related myofibrillar myopathy (MFM) [MIM:609452]. It is an autosomal dominant MFM that is characterized by distal more than proximal muscle weakness with signs of cardiomyopathy and neuropathy.,function:May function as an adapter in striated muscle to couple p |

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| **Background** | 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 ( |
| **matters needing attention** | Avoid repeated freezing and thawing! |
| **Usage suggestions** | This product can be used in immunological reaction related experiments. For more information, please consult technical personnel. |

## Products Images