

## Product datasheet for **DP2015**

### Myosin light chain 3 (MYL3) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	<b>ELISA.</b> <b>Western Blot.</b>
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Recombinant human myosin (cardiac) light chain fragment.
Specificity:	This antibody reacts to ventricular myosin light chain.
Formulation:	Azide Free, 0.05 M Phosphate buffer, 0.1 M NaCl, pH 7.2 State: Aff - Purified State: Lyophilized purified IgG Preservative: None
Reconstitution Method:	Restore with 0.05 ml of deionized water and let the lyophilized pellet dissolve completely. Slight turbidity may occur after reconstitution, which does not affect activity of the antibody. In this case clarify the solution by centrifugation.
Concentration:	lot specific
Purification:	Immunoaffinity chromatography
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	myosin light chain 3
Database Link:	<a href="#">Entrez Gene 4634 Human P08590</a>



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<b>Background:</b>	Human ventricular myosin light chain (MLC-I, Essential Myosin Light Chain Isoform) is a 21 kDa cardiac contractile protein, which is one of component of myosin structure. The protein MLC-I is present in the contractile apparatus and not in cytosol. In severe congestive heart failure (CHF), myofibrils may degenerate and, subsequently, the myofibrillar components may be released into the circulation. The increased blood levels of MLC-I could indicate morphological changes in CHF, myocardial infarction, structural abnormalities in viable myocytes also observed in non-ischaemic CHF, myocardial necrosis.
<b>Synonyms:</b>	Myosin light chain 3, Myosin light chain 1, slow-twitch muscle B/ventricular isoform, MLC1SB, Cardiac myosin light chain 1, CMLC1
<b>Note:</b>	<b>Quality Control Test</b> Indirect ELISA - to determine titer of the antibody. SDS PAGE - to determine purity of the antibody.
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Cardiac muscle contraction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM)