SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-MyoD1/Myf3 antibody

Catalog Number: SL2442R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	MyoD1/Myf3
Immunogen:	KLH conjugated synthetic peptide derived from mouse MyoD1: 51-150/318
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:1000-5000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse,Rat(predicted:Chicken)
Predicted MW.:	35kDa
Subcellular Location:	The nucleus
Background:	This gene encodes a nuclear protein that belongs to the basic helix-loop-helix family of transcription factors and the myogenic factors subfamily. It regulates muscle cell differentiation by inducing cell cycle arrest, a prerequisite for myogenic initiation. The protein is also involved in muscle regeneration. It activates its own transcription which may stabilize commitment to myogenesis. [provided by RefSeq, Jul 2008] **Function:** Involved in muscle differentiation (myogenic factor). Induces fibroblasts to differentiate into myoblasts. Activates muscle-specific promoters. Interacts with and is inhibited by the twist protein. This interaction probably involves the basic domains of both proteins. **Subunit:** Efficient DNA binding requires dimerization with another bHLH protein. Seems to form active heterodimers with ITF-2. Interacts with SUV39H1 and CDK9. Interacts with DDX5. **Subcellular Location:** Nucleus. **Post-translational modifications:** Phosphorylated by CDK9. This

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	phosphorylation promotes its function in muscle differentiation. Acetylated by a complex containing EP300 and PCAF. The acetylation is essential to activate target genes. Conversely, its deacetylation by SIRT1 inhibits its function. Ubiquitinated on the N-terminus; which is required for proteasomal degradation **Similarity:** Contains 1 bHLH (basic helix-loop-helix) domain. **Database links:** **Entrez Gene:** 374048 Chicken **Entrez Gene:** 281938 Cow **Entrez Gene:** 4654 Human **Entrez Gene:** 17927 Mouse **Entrez Gene:** 407604 Pig **Entrez Gene:** 337868 Rat **Entrez Gene:** 443405 Sheep Omim: 159970 Human **SwissProt:** P16075 Chicken **SwissProt:** Q7YS82 Cow **SwissProt:** P15172 Human **SwissProt:** P10085 Mouse **SwissProt:** P49811 Pig **SwissProt:** Q02346 Rat **SwissProt:** P29331 Sheep **Unigene:** 181768 Human **Unigene:** 1526 Mouse **Unigene:** 9493 Rat

[VALIDATION IMAGES]

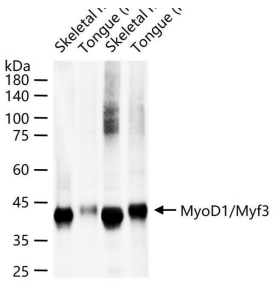


Figure 1. 25 ug total protein per lane of various lysates (see on figure) probed with MyoD1/Myf3 polyclonal antibody, unconjugated (SL2442R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min

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