SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-MyoD1/Myf3 antibody

Catalog Number: SL23809R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	MyoD1/Myf3
Immunogen:	KLH conjugated synthetic peptide derived from human MyoD1/Myf3: 1-100/320
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=1:500-2000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse,Rat(predicted:Human,Dog,Pig,Cow,Horse,Sheep)
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.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

	Post-translational modifications: Phosphorylated by CDK9. This 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

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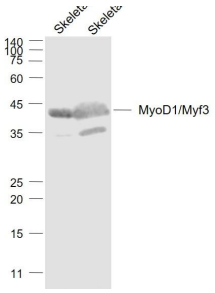
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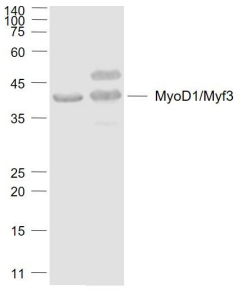
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[VALIDATION IMAGES]



Sample:
Lane 1: Skeletal muscle (Mouse) Lysate at 40 ug
Lane 2: Skeletal muscle (Rat) Lysate at 40 ug
Primary: Anti-MyoD1/Myf3 (SL23809R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 40 kD
Observed band size: 40 kD



Sample:
Lane 1: Liver (Mouse) Lysate at 40 ug
Lane 2: Heart (Mouse) Lysate at 40 ug
Primary: Anti-MyoD1'Myf3 (SL23809R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 40 kD
Observed band size: 40 kD

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