



## Rabbit Anti-MyoD1/Myf3 antibody

SL2442R

<b>Product Name:</b>	MyoD1/Myf3
<b>Chinese Name:</b>	肌原调节蛋白抗体
<b>Alias:</b>	Myogenic differentiation 1; AI503393; bHLHc1; MD1; MGC156574; MYF3; MYOD; MYOD1; PUM; MYOD1_HUMAN; Class C basic helix-loop-helix protein 1; bHLHc1; Myogenic factor 3; Myf-3.
<b>文献引用</b> PubMed :	<p><b>Specific References(3)</b> SL2442R has been referenced in 3 publications.</p> <p><b>[IF=0.00]</b>Gong, Tao, et al. "The Control of Mesenchymal Stem Cell Differentiation Using Dynamically Tunable Surface Microgrooves." <i>Advanced Healthcare Materials</i> (2014).<b>Rat</b>.  <a href="#">PubMed:24648133</a></p> <p><b>[IF=2.39]</b>Dai, Yang, et al. "microRNA-128 regulates the proliferation and differentiation of bovine skeletal muscle satellite cells by repressing Sp1." <i>Molecular and Cellular Biochemistry</i> (2016): 1-10.<b>WB;Bovine</b>.  <a href="#">PubMed:26833195</a></p> <p><b>[IF=0.00]</b>Shiratsuchi, Takaki, et al. "Sonic Hedgehog Supplementation Rapidly induces Myogenesis in Human Induced Pluripotent Stem Cells." <i>Journal of St. Marianna University 6.2</i> (2015): 225-233.<b>IF(ICC);Human</b>.  <a href="#">PubMed:0</a></p>
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,Sheep,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.

<b>Molecular weight:</b>	35kDa
<b>Cellular localization:</b>	The nucleus
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from mouse MyoD1:51-150/318
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	<p>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]</p> <p><b>Function:</b> 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.</p> <p><b>Subunit:</b> 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.</p> <p><b>Subcellular Location:</b> Nucleus.</p> <p><b>Post-translational modifications:</b> 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</p> <p><b>Similarity:</b> Contains 1 bHLH (basic helix-loop-helix) domain.</p> <p><b>SWISS:</b> P10085</p> <p><b>Gene ID:</b></p>

17927

**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

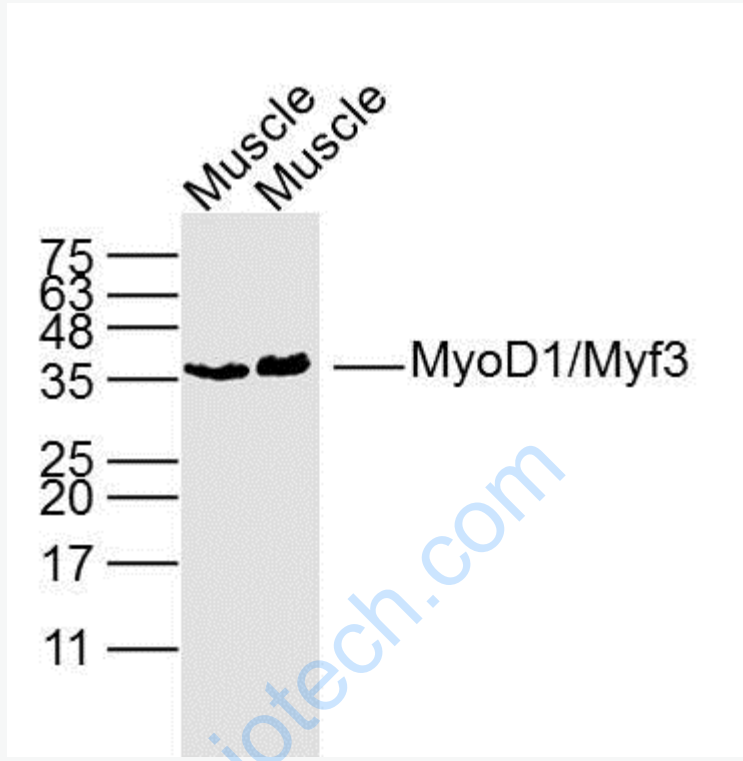
[Unigene: 1526](#)Mouse

[Unigene: 9493](#)Rat

**Important Note:**

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

Picture:



Sample:

Muscle (Rat) Lysate at 40 ug

Muscle (Mouse) Lysate at 40 ug

Primary: Anti- MyoD1/Myf3 (SL2442R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 35 kD

Observed band size: 36 kD