

Datasheet for ABIN740340
anti-MYOD1 antibody (AA 51-150)

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Overview

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|----------------------|--|
| Quantity: | 100 µL |
| Target: | MYOD1 |
| Binding Specificity: | AA 51-150 |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This MYOD1 antibody is un-conjugated |
| Application: | Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)) |

Product Details

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|-----------------------|---|
| Immunogen: | KLH conjugated synthetic peptide derived from mouse MyoD1 |
| Isotype: | IgG |
| Cross-Reactivity: | Human, Mouse, Rat |
| Predicted Reactivity: | Dog,Cow,Sheep,Pig,Horse,Chicken,Rabbit |
| Purification: | Purified by Protein A. |

Target Details

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| Target: | MYOD1 |
| Alternative Name: | MyoD1 (MYOD1 Products) |

Target Details

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|-------------|---|
| Background: | Synonyms: MYF3, MyoD, Myod-1, bHLHc1, AI53393, Myoblast determination protein 1, Myod1 Background: Acts as a transcriptional activator that promotes transcription of muscle-specific target genes and plays a role in muscle differentiation. Together with MYF5 and MYOG, co-occupies muscle-specific gene promoter core region during myogenesis. Induces fibroblasts to differentiate into myoblasts. Interacts with and is inhibited by the twist protein. This interaction probably involves the basic domains of both proteins. |
| Gene ID: | 17927 |
| UniProt: | P10085 |
| Pathways: | Regulation of Muscle Cell Differentiation, Skeletal Muscle Fiber Development |

Application Details

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|--------------------|---|
| Application Notes: | WB 1:300-5000 ELISA 1:500-1000 FCM 1:20-100 IHC-P 1:200-400 IHC-F 1:100-500 |
| Restrictions: | For Research Use only |

Handling

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|--------------------|--|
| Format: | Liquid |
| Concentration: | 1 µg/µL |
| Buffer: | 0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol. |
| Preservative: | ProClin |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only. |
| Storage: | 4 °C,-20 °C |
| Storage Comment: | Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. |
| Expiry Date: | 12 months |

Publications

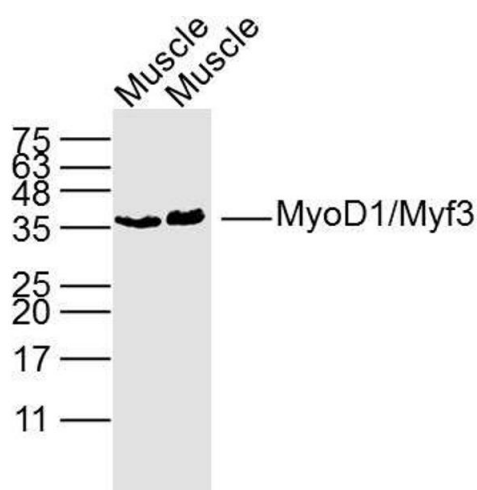
| | |
|-------------------|---|
| Product cited in: | Dai, Zhang, Wang, Liu, Li, Ding, Guo: "MicroRNA-128 regulates the proliferation and |
|-------------------|---|

differentiation of bovine skeletal muscle satellite cells by repressing Sp1." in: **Molecular and cellular biochemistry**, Vol. 414, Issue 1-2, pp. 37-46, (2016) ([PubMed](#)).

Sente, Van Berendoncks, Jonckheere, Rodenburg, Lauwers, Van Hoof, Wouters, Lardon, Hoymans, Vrints: "Primary skeletal muscle myoblasts from chronic heart failure patients exhibit loss of anti-inflammatory and proliferative activity." in: **BMC cardiovascular disorders**, Vol. 16, pp. 107, (2016) ([PubMed](#)).

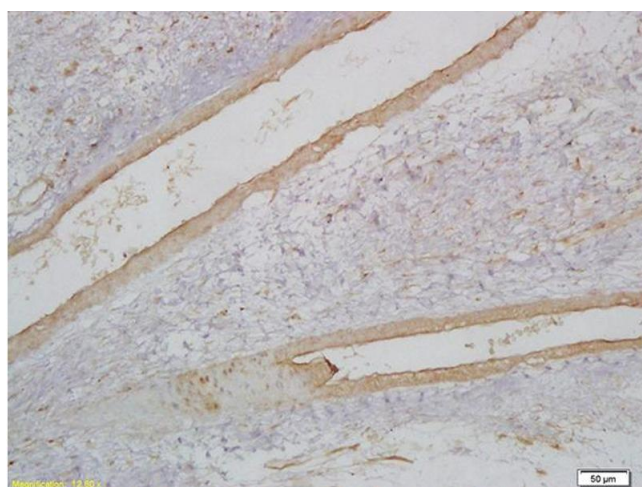
Gong, Zhao, Yang, Li, Chen, Chen, Zhou: "The control of mesenchymal stem cell differentiation using dynamically tunable surface microgrooves." in: **Advanced healthcare materials**, Vol. 3, Issue 10, pp. 1608-19, (2014) ([PubMed](#)).

Images



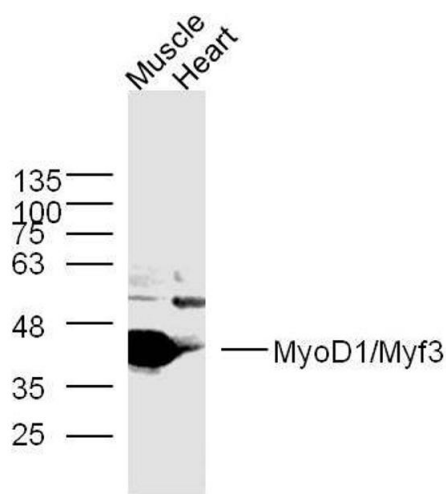
Western Blotting

Image 1. Lane 1: Rat muscle lysates Lane 2: Mouse muscle lysates Lane probed with MyoD1 Polyclonal Antibody, unconjugated at 1:300 overnight at 4°C followed by a conjugated secondary antibody for 60 minutes at 37°C.



Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded embryonic rhabdomyoma labeled with Anti-MyoD1/Myf3 Polyclonal Antibody, Unconjugated (ABIN740340) at 1:200 followed by conjugation to the secondary antibody



Western Blotting

Image 3. Lane 1: mouse muscle lysates, Lane 2: mouse heart lysates probed with MyoD1 Polyclonal Antibody, Unconjugated at 1:300 overnight at 4°C. Followed by a conjugated secondary antibody at 1:5000 for 90 min at 37°C.