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# MYOD1 Antibody
**Purified Mouse Monoclonal Antibody**
**Catalog # AO1456a**

## Specification

### MYOD1 Antibody - Product Information

| | |
|---|---|
| Application | **WB** |
| Primary Accession | P15172 |
| Reactivity | **Human** |
| Host | **Mouse** |
| Clonality | **Monoclonal** |
| Isotype | **IgG1** |
| Calculated MW | **34kDa KDa** |

**Description**
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.

**Immunogen**
Purified recombinant fragment of human MYOD1 expressed in E. Coli.

**Formulation**
Ascitic fluid containing 0.03% sodium azide.

### MYOD1 Antibody - Additional Information

**Gene ID** 4654

**Other Names**
Myoblast determination protein 1, Class C basic helix-loop-helix protein 1, bHLHc1, Myogenic factor 3, Myf-3, MYOD1, BHLHC1, MYF3, MYOD

**Dilution**
WB~~1/500 - 1/2000

**Storage**
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**
MYOD1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

### MYOD1 Antibody - Protein Information

**Name** MYOD1

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**Synonyms** BHLHC1, MYF3, MYOD

**Function**
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 (By similarity).

**Cellular Location**
Nucleus.

## MYOD1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## MYOD1 Antibody - Images

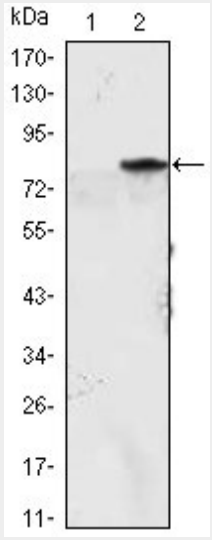


Figure 1: Western blot analysis using MYOD1 mAb against HEK293 (1) and MYOD1(AA: 1-200)-hIgGFc transfected HEK293 (2) cell lysate.

## MYOD1 Antibody - References

1. EMBO J. 2006 Jul 26;25(14):3323-34. 2. Mech Dev. 2007 Sep-Oct;124(9-10):715-28. 3. Mol Cell Biol. 2009 Apr;29(7):1909-21.