

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

MYOD1 Antibody - Product Information

Application	WB, E
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

E~~N/A

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

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 Cytometry](#)
- [Cell Culture](#)

MYOD1 Antibody - Images

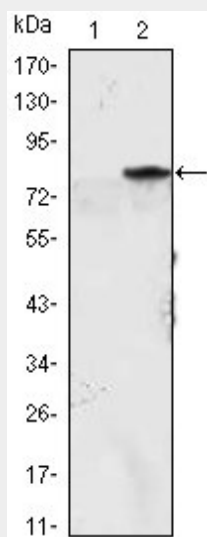


Figure 1: Western blot analysis using MYOD1 mAb against HEK293 (1) and MYOD1(AA: 1-200)-hlgGfC transfected HEK293 (2) cell lysate.

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.