

**MyoD1 Antibody (N-term) (Ascites)**  
**Mouse Monoclonal Antibody (Mab)**  
**Catalog # AM2147a**

**Specification**

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**MyoD1 Antibody (N-term) (Ascites) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P15172</a>
Other Accession	<a href="#">P13904</a> , <a href="#">Q02346</a> , <a href="#">P49811</a> , <a href="#">P10085</a> , <a href="#">P16075</a> , <a href="#">Q7YS82</a> , <a href="#">NP_002469</a> , <a href="#">P29331</a>
Reactivity	Human
Predicted	Bovine, Chicken, Mouse, Pig, Rat, Sheep, Xenopus
Host	Mouse
Clonality	Monoclonal
Isotype	IgM
Calculated MW	34501
Antigen Region	105-134

**MyoD1 Antibody (N-term) (Ascites) - 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

**Target/Specificity**

This MyoD1 antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 105-134 amino acids from the N-terminal region of human MyoD1.

**Dilution**

WB~~1:100~2000

**Format**

Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide.

**Storage**

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

**Precautions**

MyoD1 Antibody (N-term) (Ascites) is for research use only and not for use in diagnostic or therapeutic procedures.

**MyoD1 Antibody (N-term) (Ascites) - 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**

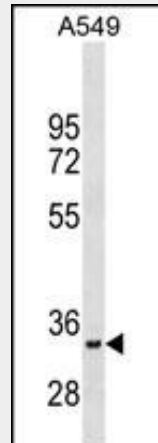
Nucleus.

**MyoD1 Antibody (N-term) (Ascites) - 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 (N-term) (Ascites) - Images**



MyoD1 Antibody (N-term)(Ascites)(Cat. #AM2147a) western blot analysis in A549 cell line lysates (35µg/lane). This demonstrates the MyoD1 antibody detected the MyoD1 protein (arrow).

**MyoD1 Antibody (N-term) (Ascites) - 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.

**MyoD1 Antibody (N-term) (Ascites) - References**

Xynos, A., et al. Stem Cells 28(5):965-973(2010)  
Stuelsatz, P., et al. J. Biol. Chem. 285(17):12670-12683(2010)  
Hiraoka, S., et al. Hum. Pathol. 41(1):38-47(2010)  
Yerges, L.M., et al. J. Bone Miner. Res. 24(12):2039-2049(2009)  
Yang, Z., et al. Genes Dev. 23(6):694-707(2009)