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MYOD1 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1456a

Product Information

Application	WB, E
Primary Accession	P15172
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	1C8
Isotype	IgG1
Calculated MW	34501
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.

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.

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.

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.

Images

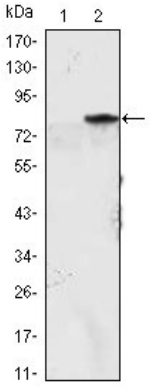


Figure 1: Western blot analysis using MYOD1 mAb against HEK293 (1) and MYOD1(AA: 1-200)-hIgGFc transfected HEK293 (2) cell lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.