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MyoD1 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12646c

Specification

MyoD1 Antibody (Center) - Product Information

Application	**IF, WB,E**
Primary Accession	P15172
Other Accession	NP_002469.2
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**34501**
Antigen Region	**211-240**

MyoD1 Antibody (Center) - 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 rabbits immunized with a KLH conjugated synthetic peptide between 211-240 amino acids from the Central region of human MyoD1.

Dilution
IF~~1:25
WB~~1:4000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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 (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

MyoD1 Antibody (Center) - 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).

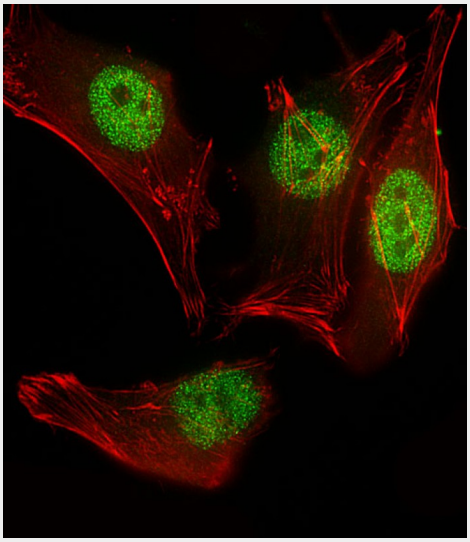
Cellular Location
Nucleus.

MyoD1 Antibody (Center) - 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 (Center) - Images



Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0. 1% Triton X-100 permeabilized Hela cells labeling MYOD1 with AP12646C at 1/25 dilution, followed by Dylight® 488-conjugated goat anti-Rabbit IgG secondary antibody at 1/200 dilution (green). Immunofluorescence image showing Nucleus staining on Hela cell line. Cytoplasmic actin is detected with Dylight® 554 Phalloidin(red). The nuclear counter stain is DAPI (blue).

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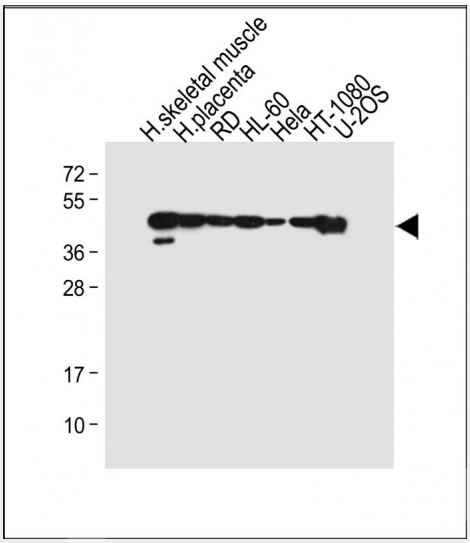

All lanes : Anti-MyoD1 Antibody (Center) at 1:4000 dilution Lane 1: Human skeletal muscle tissue lysate Lane 2: Human placenta tissue lysate Lane 3: RD whole cell lysate Lane 4: HL-60 whole cell lysate Lane 5: Hela whole cell lysate Lane 6: HT-1080 whole cell lysate Lane 7: U-2OS whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 35 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

MyoD1 Antibody (Center) - 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 (Center) - References

Xynos, A., et al. Stem Cells 28(5):965-973(2010)
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