

Anti-MyoD1 Antibody (Center)

Catalog Number: A00964-1

About MYOD1

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.

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Overview

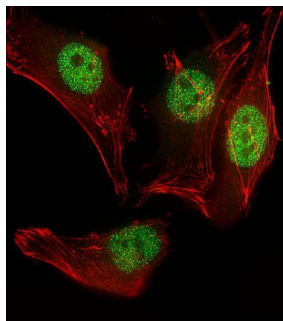
Product Name	Anti-MyoD1 Antibody (Center)
Reactive Species	Human
Description	Boster Bio Anti-MyoD1 Antibody (Center) (Catalog # A00964-1). Tested in IF, WB application(s). This antibody reacts with Human.
Application	IF, WB
Clonality	Polyclonal
Formulation	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Storage Instructions	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.
Host	Rabbit
Uniprot ID	P15172

Technical Details

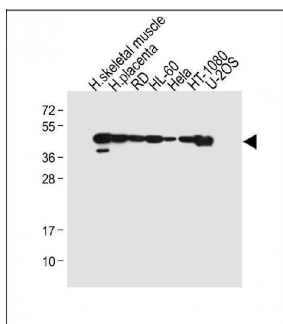
Immunogen	This MyoD1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 211-240 amino acids from the Central region of human MyoD1.
Predicted Reactive Species	Mouse, Rat
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).

Cross Reactivity	No cross reactivity with other proteins.
Isotype	Rabbit IgG
Form	Liquid
Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Suggested Dilutions	IF: 1:25 WB: 1:4000

Anti-MyoD1 Antibody (Center) (A00964-1) Images



Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa cells labeling MYOD1 with A00964-1 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).



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.

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For Research Use Only. Not for use in diagnostic procedures.