abcam

Product datasheet

Anti-MyoD1 antibody ab64159

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Overview

Product name	Anti-MyoD1 antibody
Description	Rabbit polyclonal to MyoD1
Host species	Rabbit
Tested applications	**Suitable for:** Sandwich ELISA, WB
Species reactivity	**Reacts with:** Mouse, Human **Predicted to work with:** Cow, Pig, Rhesus monkey
Immunogen	Synthetic peptide conjugated to KLH derived from within residues 300 to the C-terminus of Human MyoD1.Read Abcam's proprietary immunogen policy(Peptide available as **ab66473**.)
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab64159 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Sandwich ELISA		Use a concentration of 0.1 µg/ml. Can be paired for Sandwich ELISA with **Mouse monoclonal [5.2F] to MyoD1 (ab16148)**. For sandwich ELISA, use this antibody as Detection at 0.5 µg/ml with **Mouse monoclonal [5.2F] to MyoD1 (ab16148)** as Capture.
WB	★★★★☆ **(1)**	Use a concentration of 1 µg/ml. Detects a band of approximately 45 kDa (predicted molecular weight: 34 kDa).

Target

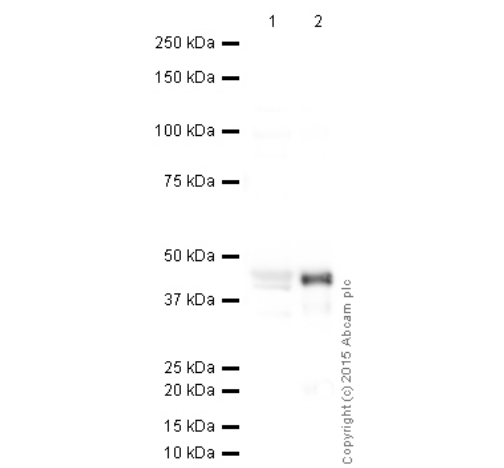
Function Involved in muscle differentiation (myogenic factor). Induces fibroblasts to differentiate into myoblasts. Activates muscle-specific promoters. Interacts with and is inhibited by the twist protein. This interaction probably involves the basic domains of both proteins.

Sequence similarities Contains 1 basic helix-loop-helix (bHLH) domain.

Post-translational modifications Acetylated by a complex containing EP300 and PCAF. The acetylation is essential to activate target genes. Conversely, its deacetylation by SIRT1 inhibits its function.
Ubiquitinated on the N-terminus; which is required for proteasomal degradation.

Cellular localization Nucleus.

Images



Western blot - Anti-MyoD1 antibody (ab64159)

All lanes : Anti-MyoD1 antibody (ab64159) at 1 µg/ml

Lane 1 : Skeletal Muscle (Mouse) Tissue Lysate at 20 µg

Lane 2 : Rh30 Whole Cell Lysate at 5 µg

Secondary

All lanes : Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/50000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 34 kDa

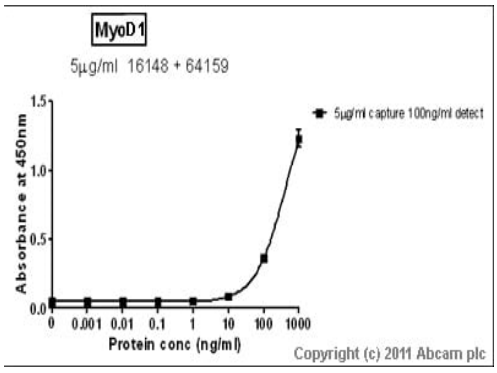
Observed band size: 45 kDa

Additional bands at: 47 kDa (possible post-translational modification)

Exposure time: 1 minute

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 2% Bovine Serum Albumin before being incubated with ab64159 overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution **ab133406**.

ab64159 detects a band at 45 kDa, while this differs to its predicted molecular weight of 34kDa, the banding pattern observed is consistent with what has been described in the literature PMID:19352326.



Sandwich ELISA - Anti-MyoD1 antibody (ab64159)

Standard Curve for Myo-D; dilution range 1 pg/ml to 1 ug/ml using Capture Antibody **Mouse monoclonal [5.2F] to MyoD1 (ab16148)** at 5ug/ml and Detector Antibody **Rabbit polyclonal to MyoD1 (ab64159)** at 0.1ug/ml.

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