

Product datasheet

Anti-MyoD1 antibody [rMYD712] ab238025

Recombinant

3 Images

Overview

Product name	Anti-MyoD1 antibody [rMYD712]
Description	Mouse monoclonal [rMYD712] to MyoD1
Host species	Mouse
Tested applications	Suitable for: IHC-P, Protein Array
Species reactivity	Reacts with: Human
Immunogen	<p>Recombinant full length protein corresponding to Human MyoD1 aa 1-320. Sequence:</p> <pre>MELLSPLRDVLTAPDGSLCSFATTDDFYDDPCFDSPD LRFFEDLPRL MHVGALLKPEEHSHPAAVHPAPGAREDEHVRAPSGHH QAGRCLLWACKA CKRKTNADRRKAATMRERRRLSKVNEAFETLKRCTSSN PNQRLPKVEIL RNAIRYIEGLQALLRDQDAAPPAAAAFYAPGPLPPGRGG EHYSGDSDAS SPRSNCSDGMMDYSGPPSGARRRNCYEGAYNEAPSEP RPGKSAAVSSLD CLSSIVERISTESPAAPALLLADVPSESPARRRQEAAAPSE GESSGDPTQS PDAAPQCPAGANPNPIYQVL</pre> <p>Database link: P15172</p> <p style="text-align: right;"> Run BLAST with Run BLAST with </p>
Positive control	IHC: Human Rhabdomyosarcoma tissue
General notes	<p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p>

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

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, as well as 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 long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.05% Sodium azide Constituents: PBS, 0.05% BSA
Purity	Protein A/G purified
Purification notes	Purified from Bioreactor concentrate.
Clonality	Monoclonal
Clone number	rMYD712
Isotype	IgG1
Light chain type	kappa

Applications

Our [Abpromise guarantee](#) covers the use of **ab238025** 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
IHC-P		Use a concentration of 1 - 2 µg/ml. Primary incubation for 30 minutes at room temperature. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 10-20 minute followed by cooling at RT for 20 minutes.
Protein Array		Use at an assay dependent concentration.

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.
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This interaction probably involves the basic domains of both proteins.

Sequence similarities

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

Post-translational modifications

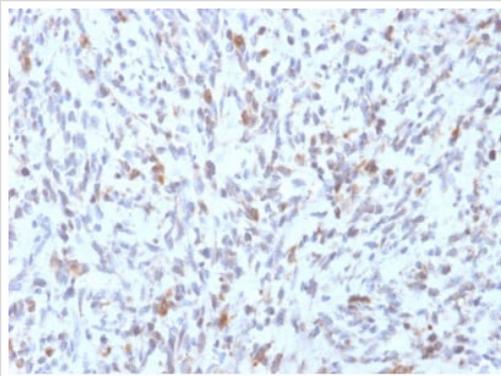
Acetylated by a complex containing EP300 and PCAF. The acetylation is essential to activate target genes. Conversely, its deacetylation by SIRT1 inhibits its function.

Ubiquitinated on the N-terminus; which is required for proteasomal degradation.

Cellular localization

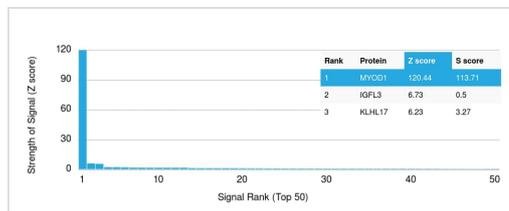
Nucleus.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MyoD1 antibody [rMYD712] (ab238025)

Formalin-fixed, paraffin-embedded human Rhabdomyosarcoma tissue stained for MyoD1 using ab238025 at 2 µg/mL in immunohistochemical analysis.



Protein Array - Anti-MyoD1 antibody (ab238025)

ab238025 was tested in protein array against over 19000 different full-length human proteins.

Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target.

A MAb is specific to its intended target if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-MyoD1 antibody [rMYD712] (ab238025)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
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