abcam

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	Recombinant full length protein corresponding to Human MyoD1 aa 1 to the C-terminus. Database link: **P15172** Run BLAST with Run BLAST with
Positive control	IHC: Human Rhabdomyosarcoma tissue

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	pH: 7.2 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

The Abpromise guarantee	Our **Abpromise guarantee** covers the use of ab238025 in the following tested applications.

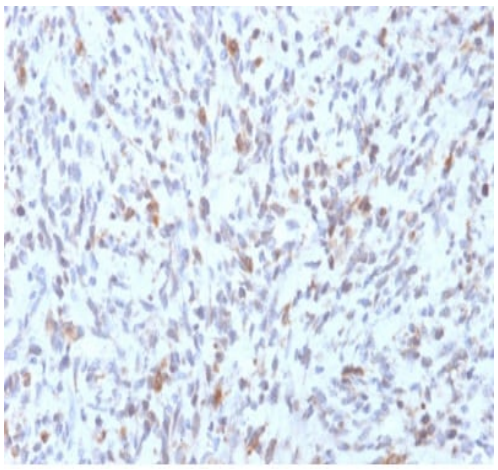
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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

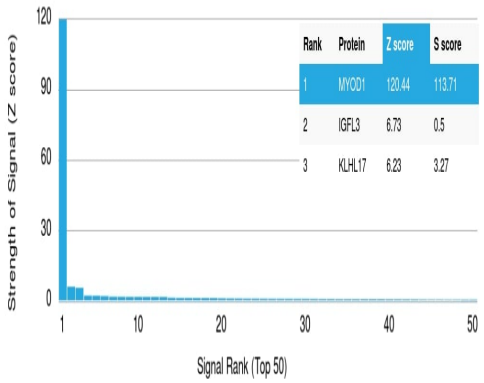
Function	Involved in muscle differentiation (myogenic factor). Induces fibroblasts to differentiate into myoblasts. Activates muscle-specific promoters. Interacts with and is inhibited by the twist protein. This interaction probably involves the basic domains of both proteins.
Sequence similarities	Contains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

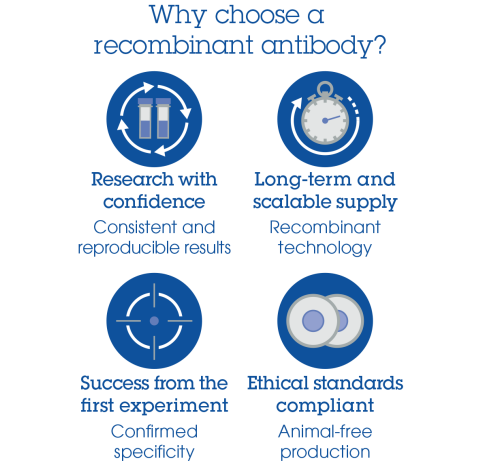


Protein Array - Anti-MyoD1 antibody (ab238025)

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 HuProtTM 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 HuProtTM 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.



Anti-MyoD1 antibody [rMYD712] (ab238025)

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