

## Product datasheet

# Anti-MyoD1 antibody [MYOD1/2075R] - BSA and Azide free ab237870

Recombinant

2 Images

### Overview

<b>Product name</b>	Anti-MyoD1 antibody [MYOD1/2075R] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [MYOD1/2075R] to MyoD1 - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> Protein Array, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	<p>Recombinant full length protein corresponding to Human MyoD1 aa 1-320. Sequence:</p> <p>MELLSPPLRDVLTAPDGSLCSFATTDDFYDDPCFDS PDLRFFEDLDPRL MHVGALLKPEEHSHPAAVHPAPGAREDEHVRAPSG HHQAGRCLLWACKA CKRKTTNADRRKAATMRERRRLSKVNEAFETLKRCTS SNPNQRLPKVEIL RNAIRYIEGLQALLRDQDAAPPAAAAFYAPGPLPPGR GGEHYSGDSDAS SPRSNCSDGMMDYSGPPSGARRRNCYEGAYNEAPS EPRPGKSAAVSSLD CLSSIVERISTESPAAPALLLADVPSPPRRQEAAAP SEGESSGDPTQS PDAAPQCPAGANPNPIYQVL</p> <p>Database link: <a href="#">P15172</a></p> <p style="text-align: right;"> <a href="#">Run BLAST with</a>               <a href="#">Run BLAST with</a> </p>
<b>Positive control</b>	IHC-P: Human rhabdomyosarcoma tissue.
<b>General notes</b>	<i>ab237870 is a PBS-only buffer format of <a href="#">ab238026</a>.</i>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	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.

<b>Storage buffer</b>	Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	MYOD1/2075R
<b>Isotype</b>	IgG

## Applications

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Our [Abpromise guarantee](#) covers the use of **ab237870** 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
Protein Array		Use at an assay dependent concentration.
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 minutes followed by cooling at RT for 20 minutes.

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## Target

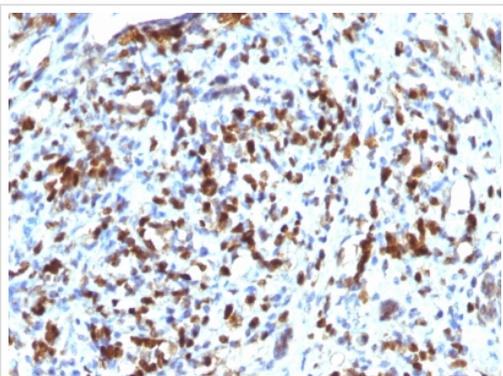
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<b>Function</b>	Involved in muscle differentiation (myogenic factor). Induces fibroblasts to differentiate into myoblasts. Activates muscle-specific promoters. Interacts with and is inhibited by the twist protein. This interaction probably involves the basic domains of both proteins.
<b>Sequence similarities</b>	Contains 1 basic helix-loop-helix (bHLH) domain.
<b>Post-translational modifications</b>	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.
<b>Cellular localization</b>	Nucleus.

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## Images

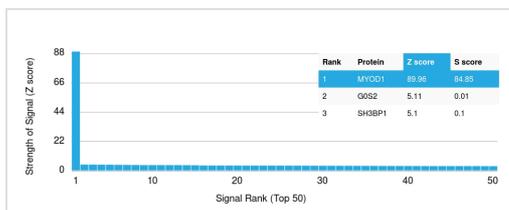
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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MyoD1 antibody [MYOD1/2075R] - BSA and Azide free (ab237870)

Formalin-fixed, paraffin-embedded human rhabdomyosarcoma tissue stained for MyoD1 using [ab238026](#) at 2 µg/ml in immunohistochemical analysis.

This data was produced with [ab238026](#), the same antibody in a different formulation with BSA and Azide.



Protein Array - Anti-MyoD1 antibody (ab237870)

This data was produced with [ab238026](#), the same antibody in a different formulation with BSA and Azide.

[ab238026](#) 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.

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

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