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Datasheet for ABIN5708000

anti-MYOD1 antibody

2 Images

Overview

Quantity:	100 µg
Target:	MYOD1
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This MYOD1 antibody is un-conjugated
Application:	Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Recombinant human protein was used as the immunogen for this recombinant MyoD antibody.
Clone:	MYOD1-2075R
Isotype:	IgG kappa
Purification:	Purified
Purity:	Protein A affinity chromatography

Target Details

Target:	MYOD1
Alternative Name:	MyoD1 (MYOD1 Products)
Background:	MyoD, or MYOD1, is one of the earliest markers of myogenic commitment. MyoD is expressed at extremely low and essentially undetectable levels in quiescent satellite cells, but expression

Target Details

of MyoD is activated in response to exercise or muscle tissue damage. The effect of MyoD on satellite cells is dose-dependent, high MyoD expression represses cell renewal, promotes terminal differentiation and can induce apoptosis. Although MyoD marks myoblast commitment, muscle development is not dramatically ablated in mouse mutants lacking the MyoD gene. This is likely due to functional redundancy from Myf5 and/or Mrf4. Nevertheless, the combination of MyoD and Myf5 is vital to the success of myogenesis. [Wiki]

Pathways: [Regulation of Muscle Cell Differentiation, Skeletal Muscle Fiber Development](#)

Application Details

Application Notes: The optimal dilution of the recombinant MyoD antibody for each application should be determined by the researcher.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.\. Immunohistochemistry (FFPE): 0.5-1 µg/mL for 30 min at RT, Prediluted IHC only format: incubate for 30 min at RT (1)

Restrictions: For Research Use only

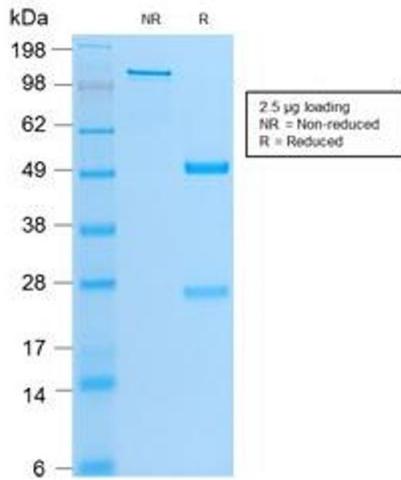
Handling

Buffer: 1 mg/mL in 1X PBS, BSA free, sodium azide free

Preservative: Azide free

Storage: 4 °C, -20 °C

Storage Comment: Store the recombinant MyoD antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).



SDS-PAGE

Image 1. SDS-PAGE analysis of purified, BSA-free recombinant MyoD antibody (clone MYOD1/2075R) as confirmation of integrity and purity.

Human Protein Microarray Specificity Validation



Microarray

Image 2. Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using MyoD antibody (clone MYOD1/2075R). These results demonstrate the foremost specificity of the MYOD1/2075R mAb.

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