

## ARG66768 anti-MyoD antibody [SQab20201]

Package: 100 µl  
Store at: -20°C

### Summary

Product Description	Recombinant Rabbit Monoclonal antibody [SQab20201] recognizes MyoD
Tested Reactivity	Hu
Tested Application	IHC-P
Host	Rabbit
Clonality	Monoclonal
Clone	SQab20201
Isotype	IgG
Target Name	MyoD
Species	Human
Immunogen	Synthetic peptide within aa. 1-100 of Human MyoD.
Conjugation	Un-conjugated
Alternate Names	PUM; MYF3; Myoblast determination protein 1; bHLHc1; Myogenic factor 3; MYOD; Myf-3; Class C basic helix-loop-helix protein 1

### Application Instructions

Application table	Application	Dilution
	IHC-P	1:100 - 1:200
Application Note	IHC-P: Antigen Retrieval: Heat mediation was performed in Tris/EDTA buffer (pH 9.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Rhabdomyosarcomas tissue.	

### Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS, 0.01% Sodium azide, 40% Glycerol and 0.05% BSA.
Preservative	0.01% Sodium azide
Stabilizer	40% Glycerol and 0.05% BSA
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

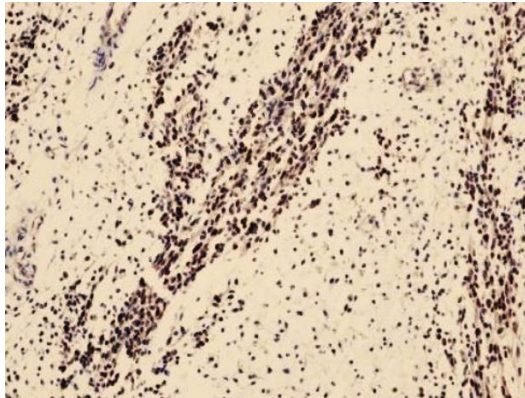
## Bioinformation

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Gene Symbol	MYOD1
Gene Full Name	myogenic differentiation 1
Background	This gene encodes a nuclear protein that belongs to the basic helix-loop-helix family of transcription factors and the myogenic factors subfamily. It regulates muscle cell differentiation by inducing cell cycle arrest, a prerequisite for myogenic initiation. The protein is also involved in muscle regeneration. It activates its own transcription which may stabilize commitment to myogenesis. [provided by RefSeq, Jul 2008]
Function	Acts as a transcriptional activator that promotes transcription of muscle-specific target genes and plays a role in muscle differentiation. Together with MYF5 and MYOG, co-occupies muscle-specific gene promoter core region during myogenesis. Induces fibroblasts to differentiate into myoblasts. Interacts with and is inhibited by the twist protein. This interaction probably involves the basic domains of both proteins (By similarity). [UniProt]
Calculated Mw	35 kDa
PTM	Phosphorylated by CDK9. This phosphorylation promotes its function in muscle differentiation.  Acetylated by a complex containing EP300 and PCAF. The acetylation is essential to activate target genes. Conversely, its deacetylation by SIRT1 inhibits its function (By similarity).  Ubiquitinated on the N-terminus; which is required for proteasomal degradation.  Methylation at Lys-104 by EHMT2/G9a inhibits myogenic activity. [UniProt]
Cellular Localization	Nucleus. [UniProt]

## Images

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ARG66768 anti-MyoD antibody [SQab20201] IHC-P image

Immunohistochemistry: Formalin/PFA-fixed and paraffin-embedded Human Rhabdomyosarcoma tissue. Antigen Retrieval: Heat mediation was performed in Tris/EDTA buffer (pH 9.0). The tissue section was stained with ARG66768 anti-MyoD antibody [SQab20201] at 18°C - 25°C for 30 minutes.