

For Research Use Only

# MYOD1 Polyclonal antibody

Catalog Number: 18943-1-AP **85 Publications**



## Basic Information

<b>Catalog Number:</b> 18943-1-AP	<b>GenBank Accession Number:</b> BC064493	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 450 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 4654	<b>Recommended Dilutions:</b> WB 1:1000-1:6000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P15172	
<b>Isotype:</b> IgG	<b>Full Name:</b> myogenic differentiation 1	
<b>Immunogen Catalog Number:</b> AG13512	<b>Calculated MW:</b> 320 aa, 35 kDa	
	<b>Observed MW:</b> 35-45 kDa	

## Applications

<b>Tested Applications:</b> WB, FC, IHC, ELISA	<b>Positive Controls:</b> WB : mouse heart tissue, human heart tissue, mouse skeletal muscle tissue, rat heart tissue IHC : mouse embryo tissue,
<b>Cited Applications:</b> WB, IF, IHC, ChIP	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, goat, chicken, rat, mouse, rabbit, zebrafish, pig, duck, bovine	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

MYOD1, also named as BHLHC1 or MYF3, is a 320 amino acid protein, which promotes the transcriptional activity of MYOD1 through its CDK9-mediated phosphorylation. This phosphorylation promotes its function in muscle differentiation. MYOD1 acts as a transcriptional activator that promotes transcription of muscle-specific target genes and plays a role in muscle differentiation. MYOD1 together with MYF5 and MYOG, co-occupies muscle-specific gene promoter core region during myogenesis. Induces fibroblasts to differentiate into myoblasts. he calculated molecular weight of MYOD1 is 34 kDa, but modified MYOD1 is about 45 kDa. (PMID: 12037670)

## Notable Publications

Author	Pubmed ID	Journal	Application
Yuanyuan Wu	36075558	Cell Signal	WB
Peng Ren	36118887	Front Genet	IHC
Hongyi Zhou	34502418	Int J Mol Sci	WB

## Storage

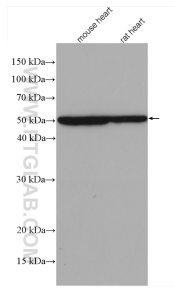
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

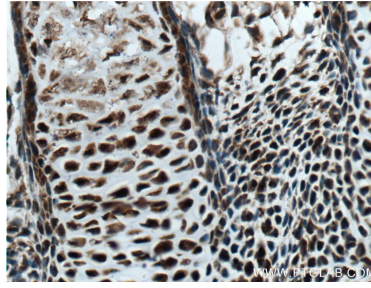
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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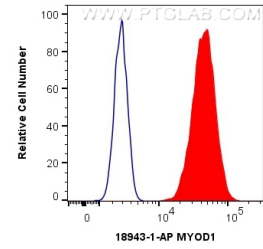
## Selected Validation Data



mouse heart tissue were subjected to SDS PAGE followed by western blot with 18943-1-AP (MYOD1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse embryo tissue slide using 18943-1-AP (MYOD1 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



$1 \times 10^6$  C2C12 cells were intracellularly stained with 0.4 ug Anti-Human MYOD1 (18943-1-AP) and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).