

For Research Use Only

# MYOD1 Monoclonal antibody

Catalog Number: 66214-1-Ig 5 Publications



## Basic Information

Catalog Number: 66214-1-Ig	GenBank Accession Number: BC064493	Purification Method: Protein A purification
Size: 150ul , Concentration: 3900 ug/ml by Nanodrop and 1467 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 4654	CloneNo.: 5D1D12
Source: Mouse	UNIPROT ID: P15172	Recommended Dilutions: WB 1:500-1:2000
Isotype: IgG1	Full Name: myogenic differentiation 1	
Immunogen Catalog Number: AG13512	Calculated MW: 320 aa, 35 kDa	
	Observed MW: 47 kDa	

## Applications

Tested Applications: WB, ELISA	Positive Controls: WB : human skeletal muscle tissue,
Cited Applications: WB	
Species Specificity: human, mouse, rat, pig	
Cited Species: human, rat, mouse, pig	

## 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 45-47 kDa. (PMID: 12037670)

## Notable Publications

Author	Pubmed ID	Journal	Application
Yilei Li	34609951	Aging (Albany NY)	WB
Wei Cui	31201822	Toxicol Appl Pharmacol	WB
Yuping Yang	33732648	Front Oncol	WB

## Storage

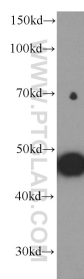
Storage:  
Store at -20°C. Stable for one year after shipment.  
Storage Buffer:  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 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)  
E: proteintech@ptglab.com  
W: ptglab.com

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## Selected Validation Data



human skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 66214-1-Ig (MYOD1 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.