

MYOD1 Polyclonal antibody

Catalog Number: 18943-1-AP

84 Publications

Basic Information

Catalog Number:

18943-1-AP

Size:

450 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG13512

GenBank Accession Number:

BC064493

GeneID (NCBI):

4654

UNIPROT ID:

P15172

Full Name:

myogenic differentiation 1

Calculated MW:

320 aa, 35 kDa

Observed MW:

35-45 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:6000

IHC 1:50-1:500

Applications

Tested Applications:

FC, IHC, WB, ELISA

Cited Applications:

ChIP, IF, IHC, WB

Species Specificity:

human, mouse, rat

Cited Species:

human, goat, chicken, rat, mouse, rabbit, zebrafish, pig, duck, bovine

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse heart tissue, human heart tissue, mouse skeletal muscle tissue, rat heart tissue

IHC : mouse embryo tissue,

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. The 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

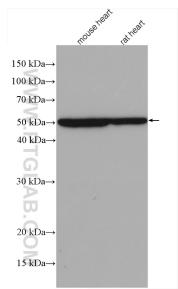
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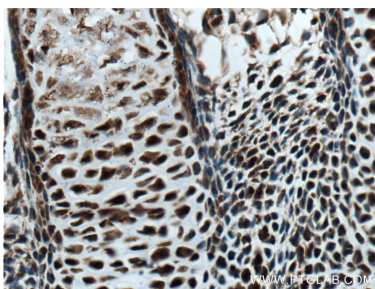
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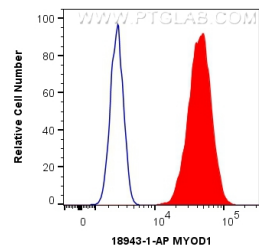
Selected Validation Data



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).



1X10⁶ 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).