

For Research Use Only

MYOD1 Polyclonal antibody

Catalog Number: 18943-1-AP

Featured Product

117 Publications



Basic Information

Catalog Number:

18943-1-AP

Concentration:

600 ug/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

IF/ICC 1:400-1:1600

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF, ChIP

Species Specificity:

human, mouse, rat

Cited Species:

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

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,

IF/ICC : HeLa cells,

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

For technical support and original validation data for this product please contact:

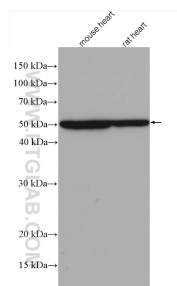
T: 4006900926

E: Proteintech-CN@ptglab.com

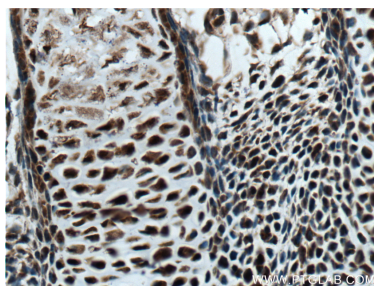
W: ptgcn.com

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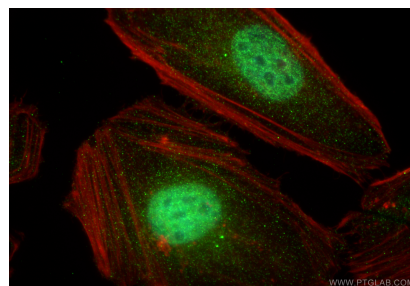
Selected Validation Data



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).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using MYOD1 antibody (18943-1-AP) at dilution of 1:800 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-Phalloidin (red).