For Research Use Only

MYOD1 Monoclonal antibody

Catalog Number:66214-1-Ig 5 Publications

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Basic Information

Catalog Number:
66214-1-Ig

Size:
3900 μg/ml

Source:
Mouse

Isotype:
IgG1

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:
47 kDa

Purification Method:
Protein A purification

CloneNo.:
5D1D12

Recommended Dilutions:
WB 1:500-1:2000

Applications

Tested Applications:
WB, ELISA

Cited Applications:
WB

Species Specificity:
human, mouse, rat, pig

Cited Species:
human, rat, mouse, pig

Positive Controls:

WB : human skeletal muscle 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. he calculated molecular weight of MYOD1 is 34 kDa, but modified MYOD1 is about 45-47 kDa. (PMID: 12037670)

Notable Publications

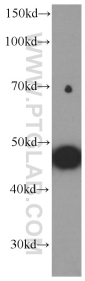
Author	Pubmed ID	Journal	Application
Yilei Li	34609951	Aging (Albany NY)	WB
Wei Cui	31201822	Toxicol Appl Pharmacol	WB
Yuping Yang	33732648	Front Oncol	WB

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

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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.