

For Research Use Only

MYOD1 Monoclonal antibody

Catalog Number: 66214-1-Ig **4 Publications**



Basic Information

| | | |
|---|---|---|
| Catalog Number: 66214-1-Ig | GenBank Accession Number: BC064493 | Purification Method: Protein A purification |
| Size: 3900 µg/ml | 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

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|---|---|
| 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 | |

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:

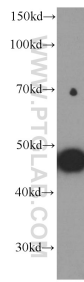
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Selected Validation Data



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.