



Datasheet for ABIN968169  
**anti-MEF2D antibody (AA 346-511)**



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## Overview

Quantity:	50 µg
Target:	MEF2D
Binding Specificity:	AA 346-511
Reactivity:	Human, Mouse, Rat, Dog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This MEF2D antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP)

## Product Details

Immunogen:	Mouse MEF2D aa. 346-511
Clone:	9-MEF2D
Isotype:	IgG1
Cross-Reactivity:	Human, Rat (Rattus), Dog (Canine)
Characteristics:	<ol style="list-style-type: none"><li>1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.</li><li>2. Source of all serum proteins is from USDA inspected abattoirs located in the United States.</li><li>3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.</li><li>4. Please refer to us for technical protocols.</li></ol>

## Product Details

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**Purification:** The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

## Target Details

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**Target:** MEF2D

**Alternative Name:** MEF2D ([MEF2D Products](#))

**Background:** MEF2D is a member of the MEF2 (Myocyte-specific Enhancer-binding Factor 2) transcription factor family. Members of this family (MEF2A, B, C, & D) contain several characteristic motifs that include a MEF2 domain and a MADS box. MEF2 proteins bind the DNA sequence, 5'-(C/T)T(A/T)(A/T)AAATA(A/G)-3', and binding occurs primarily, although not exclusively, in muscle cells. MEF2D gene expression is ubiquitous and the mRNA is alternatively spliced. This results in multiple protein isoforms that heterodimerize with other family members. In addition to the MEF2 and MADS domains, MEF2D has a glutamine-/proline-rich region, amino acids 365-404, and a basic region, in the MADS domain near the N-terminus. The glutamine-/proline-rich region is involved in transactivation, while the basic region mediates sequence-specific DNA binding. MEF2D displays 75% similarity to hMEF2A and hMEF2C. Myogenin gene transcription requires MEF2D, indicating that MEF2D is involved in myogenesis and muscle cell differentiation. MEF2D has been reported to have a calculated molecular weight of 56 kD, but can be observed migrating in a range of 56-70 kD.

Synonyms: Myocyte-specific Enhancer-binding Factor 2

**Molecular Weight:** 56-70 kDa

## Application Details

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**Comment:** Related Products: ABIN968535, ABIN967389

**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

**Concentration:** 250 µg/mL

**Buffer:** Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.

**Preservative:** Sodium azide

**Precaution of Use:** This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

## Handling

should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store undiluted at -20° C.

## Publications

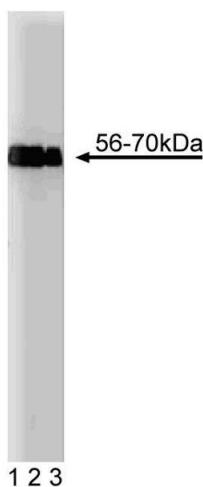
Product cited in: Guttridge, Mayo, Madrid, Wang, Baldwin: "NF-kappaB-induced loss of MyoD messenger RNA: possible role in muscle decay and cachexia." in: **Science (New York, N.Y.)**, Vol. 289, Issue 5488, pp. 2363-6, (2000) ([PubMed](#)).

Mora, Pessin: "The MEF2A isoform is required for striated muscle-specific expression of the insulin-responsive GLUT4 glucose transporter." in: **The Journal of biological chemistry**, Vol. 275, Issue 21, pp. 16323-8, (2000) ([PubMed](#)).

Breitbart, Liang, Smoot, Laheru, Mahdavi, Nadal-Ginard: "A fourth human MEF2 transcription factor, hMEF2D, is an early marker of the myogenic lineage." in: **Development (Cambridge, England)**, Vol. 118, Issue 4, pp. 1095-106, (1994) ([PubMed](#)).

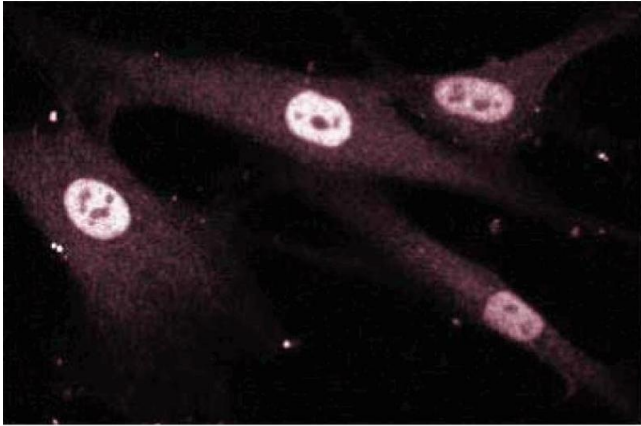
Martin, Miano, Hustad, Copeland, Jenkins, Olson: "A Mef2 gene that generates a muscle-specific isoform via alternative mRNA splicing." in: **Molecular and cellular biology**, Vol. 14, Issue 3, pp. 1647-56, (1994) ([PubMed](#)).

## Images



### Western Blotting

**Image 1.** Western blot analysis of MEF2D on a HeLa cell lysate (Human cervical epitheloid carcinoma, ATCC CCL-2.2). Lane 1: 1:2500, lane 2: 1:5000, lane 3: 1:10,000 dilution of the mouse anti-MEF2D antibody.



### Immunofluorescence

**Image 2.** Immunofluorescence staining of Human Fibroblasts.