

Datasheet for ABIN7138832  
**anti-MEF2A antibody (pThr312)**[Go to Product page](#)

## 3 Images

## Overview

Quantity:	100 µL
Target:	MEF2A
Binding Specificity:	pThr312
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MEF2A antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF)

## Product Details

Immunogen:	Peptide sequence around phosphorylation site of threonine 312 (L-A-T(p)-P-V) derived from Human MEF2A.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using

## Target Details

Target:	MEF2A
Alternative Name:	MEF2A ( <a href="#">MEF2A Products</a> )

## Target Details

Background:	<p>Background:</p> <p>The process of differentiation from mesodermal precursor cells to myoblasts has led to the discovery of a variety of tissue-specific factors that regulate muscle gene expression. The myogenic basic helix-loop-helix proteins, including myoD (MIM 159970), myogenin (MIM 159980), MYF5 (MIM 159990), and MRF4 (MIM 159991) are one class of identified factors. A second family of DNA binding regulatory proteins is the myocyte-specific enhancer factor-2 (MEF2) family. Each of these proteins binds to the MEF2 target DNA sequence present in the regulatory regions of many, if not all, muscle-specific genes. The MEF2 genes are members of the MADS gene family (named for the yeast mating type-specific transcription factor MCM1, the plant homeotic genes 'agamous' and 'deficiens' and the human serum response factor SRF (MIM 600589)), a family that also includes several homeotic genes and other transcription factors, all of which share a conserved DNA-binding domain</p> <p>K Satoh, J Ohnishi, A Sato, et al. (2007) Nemo-Like Kinase-Myocyte Enhancer Factor 2A Signaling Regulates Anterior Formation in Xenopus Development. Molecular and Cellular Biology, 27(21):7623-30.</p> <p>This article references the use of the #11039 in the following applications :Western blotting</p> <p>Aliases: ADCAD1 antibody, MADS box transcription enhancer factor 2, polypeptide A (myocyte enhancer factor 2A) antibody, MEF2 antibody, MEF2A antibody, MEF2A_HUMAN antibody, Myocyte enhancer factor 2A antibody, Myocyte-specific enhancer factor 2A antibody, RSRFC4 antibody, RSRFC9 antibody, Serum response factor like protein 1 antibody, Serum response factor-like protein 1 antibody</p>
UniProt:	<a href="#">Q02078</a>
Pathways:	<a href="#">Neurotrophin Signaling Pathway</a> , <a href="#">Activation of Innate immune Response</a> , <a href="#">Carbohydrate Homeostasis</a> , <a href="#">Chromatin Binding</a> , <a href="#">Regulation of Muscle Cell Differentiation</a> , <a href="#">Toll-Like Receptors Cascades</a>

## Application Details

Application Notes:	WB:1:500-1:1000, IHC:1:50-1:100, IF:1:100-1:200,
Restrictions:	For Research Use only

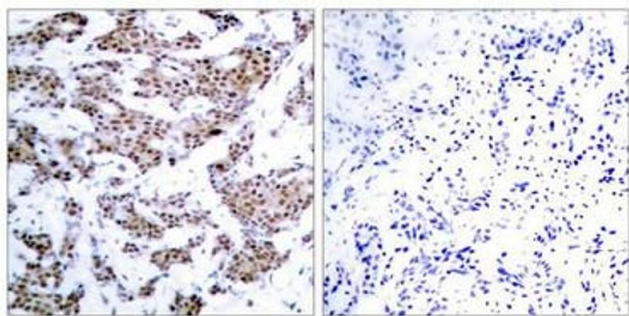
## Handling

Format:	Liquid
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## Handling

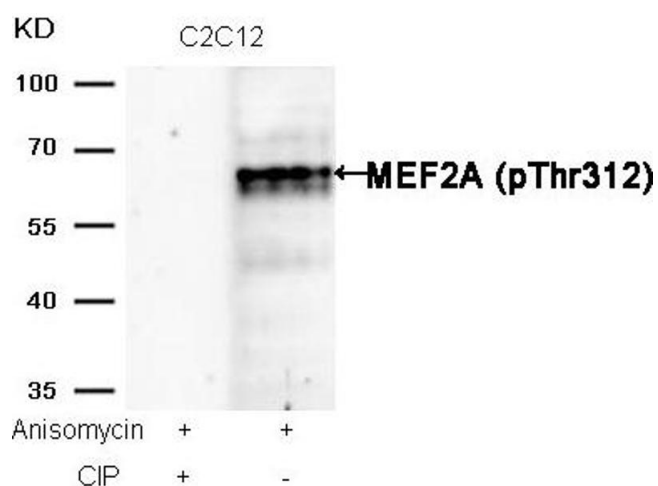
Buffer:	Supplied at 1.0 mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C, -80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

## Images



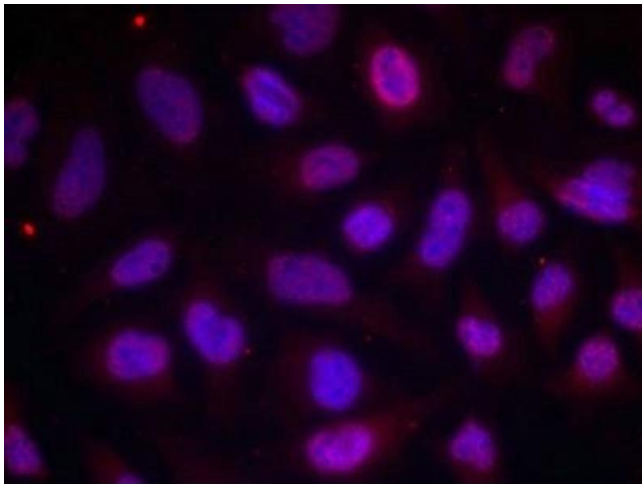
### Immunohistochemistry

**Image 1.** Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using MEF2A(Phospho-Thr312) Antibody(left) or the same antibody preincubated with blocking peptide(right).



### Western Blotting

**Image 2.** Western blot analysis of extracts from C2C12 cells, treated with Anisomycin or calf intestinal phosphatase (CIP), using MEF2A (Phospho-Thr312) Antibody.



#### Immunofluorescence

**Image 3.** Immunofluorescence staining of methanol-fixed HeLa cells using MEF2A(Phospho-Thr312) Antibody.