10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# Anti-MEF2A Picoband Antibody

**Catalog # ABO12638**

## Specification

### Anti-MEF2A Picoband Antibody - Product Information

| | |
|---|---|
| Application | **WB, IHC** |
| Primary Accession | Q02078 |
| Host | **Rabbit** |
| Reactivity | **Human, Mouse, Rat** |
| Clonality | **Polyclonal** |
| Format | **Lyophilized** |

**Description**
Rabbit IgG polyclonal antibody for Myocyte-specific enhancer factor 2A(MEF2A) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

**Reconstitution**
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

### Anti-MEF2A Picoband Antibody - Additional Information

**Gene ID** 4205

**Other Names**
Myocyte-specific enhancer factor 2A, Serum response factor-like protein 1, MEF2A, MEF2

**Calculated MW**
54811 MW KDa

**Application Details**
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat<br> <br>Western blot, 0.1-0.5 µg/ml, Human, Rat<br>

**Subcellular Localization**
Nucleus .

**Tissue Specificity**
Isoform MEF2 and isoform MEFA are expressed only in skeletal and cardiac muscle and in the brain. Isoform RSRFC4 and isoform RSRFC9 are expressed in all tissues examined. .

**Protein Name**
Myocyte-specific enhancer factor 2A

**Contents**
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

**Immunogen**
A synthetic peptide corresponding to a sequence at the C-terminus of human MEF2A (466-507aa DGSDREDPRGDFHSPIVLGRPPNTEDRESPSVKRMRMDAW VT), different from the related mouse sequence by one amino acid, and from the related rat sequence by two amino acids.

**Purification**
Immunogen affinity purified.

**Cross Reactivity**
No cross reactivity with other proteins

| | |
|---|---|
| Storage | **At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.** |

## Anti-MEF2A Picoband Antibody - Protein Information

**Name** MEF2A

**Synonyms** MEF2

**Function**
Transcriptional activator which binds specifically to the MEF2 element, 5'-YTA[AT](4)TAR-3', found in numerous muscle-specific genes. Also involved in the activation of numerous growth factor- and stress-induced genes. Mediates cellular functions not only in skeletal and cardiac muscle development, but also in neuronal differentiation and survival. Plays diverse roles in the control of cell growth, survival and apoptosis via p38 MAPK signaling in muscle-specific and/or growth factor-related transcription. In cerebellar granule neurons, phosphorylated and sumoylated MEF2A represses transcription of NUR77 promoting synaptic differentiation. Associates with chromatin to the ZNF16 promoter.

**Cellular Location**
Nucleus {ECO:0000255|PROSITE-ProRule:PRU00251, ECO:0000269|PubMed:12691662, ECO:0000269|PubMed:16563226}

**Tissue Location**
Isoform MEF2 and isoform MEFA are expressed only in skeletal and cardiac muscle and in the brain. Isoform RSRFC4 and isoform RSRFC9 are expressed in all tissues examined

## Anti-MEF2A Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## Anti-MEF2A Picoband Antibody - Images

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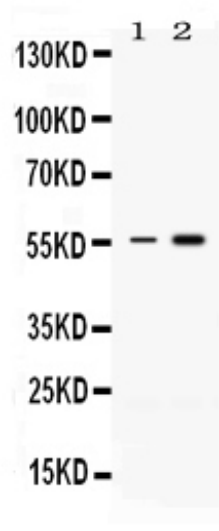
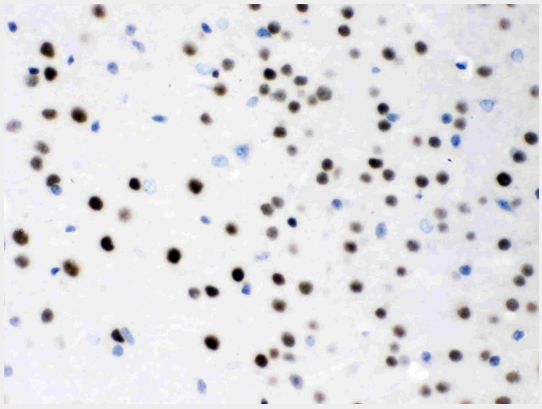
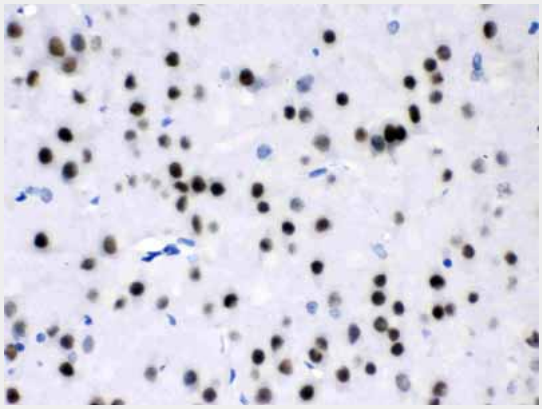



Western blot analysis of MEF2A expression in rat thymus extract (lane 1) and HELA whole cell lysates (lane 2). MEF2A at 56KD was detected using rabbit anti-MEF2A Antigen Affinity purified polyclonal antibody (Catalog # ABO12638) at 0.5 Î¼g/mL. The blot was developed using chemiluminescence (ECL) method .



MEF2A was detected in paraffin-embedded sections of mouse brain tissues using rabbit anti-MEF2A Antigen Affinity purified polyclonal antibody (Catalog # ABO12638) at 1 Î¼g/mL. The immunohistochemical section was developed using SABC method .



MEF2A was detected in paraffin-embedded sections of rat brain tissues using rabbit anti- MEF2A Antigen Affinity purified polyclonal antibody (Catalog # ABO12638) at 1 Î¼g/mL. The immunohistochemical section was developed using SABC method .

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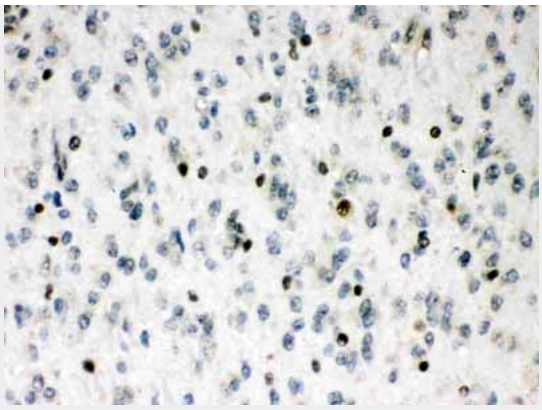
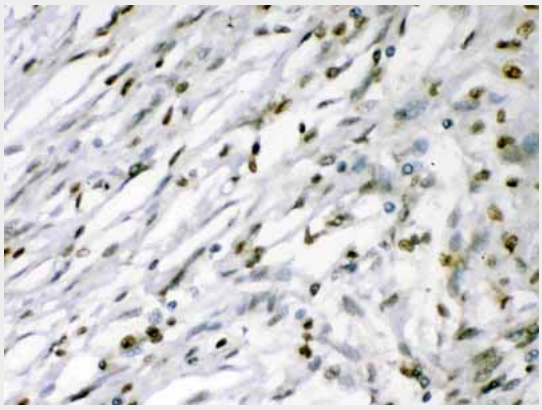


MEF2A was detected in paraffin-embedded sections of human glioma tissues using rabbit anti-MEF2A Antigen Affinity purified polyclonal antibody (Catalog # ABO12638) at 1 Î¼g/mL. The immunohistochemical section was developed using SABC method .



MEF2A was detected in paraffin-embedded sections of human meningeoma tissues using rabbit anti- MEF2A Antigen Affinity purified polyclonal antibody (Catalog # ABO12638) at 1 ??g/mL. The immunohistochemical section was developed using SABC method .

**Anti-MEF2A Picoband Antibody - Background**

Myocyte-specific enhancer factor 2A is a protein that in humans is encoded by the MEF2A gene. It is mapped to 15q26. The protein encoded by this gene is a DNA-binding transcription factor that activates many muscle-specific, growth factor-induced, and stress-induced genes. The encoded protein can act as a homodimer or as a heterodimer and is involved in several cellular processes, including muscle development, neuronal differentiation, cell growth control, and apoptosis. Defects in this gene could be a cause of autosomal dominant coronary artery disease 1 with myocardial infarction (ADCAD1). Several transcript variants encoding different isoforms have been found for this gene.