

Anti-MEF2A Picoband Antibody
Catalog # ABO12638**Specification**

Anti-MEF2A Picoband Antibody - Product Information

Application	WB, IHC-P
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
Western blot, 0.1-0.5 µg/ml, Human, Rat

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 Na₃.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human MEF2A (466-507aa DGSDREDPRGDFHSPIVLGRPPNTEDRESPSVKRMMDAW 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 reconstitution, 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}

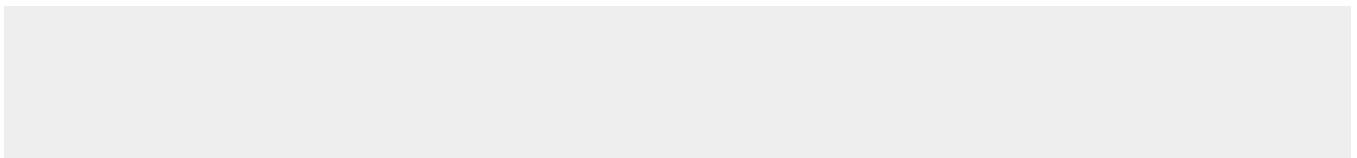
Tissue Location

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Anti-MEF2A Picoband Antibody - Protocols

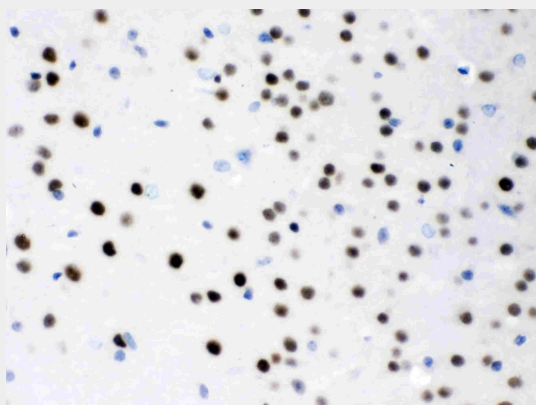
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

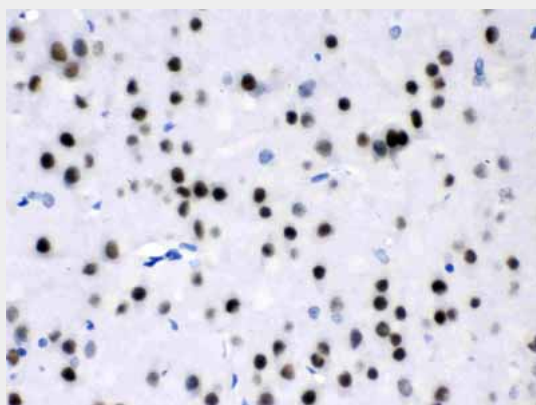
Anti-MEF2A Picoband Antibody - Images



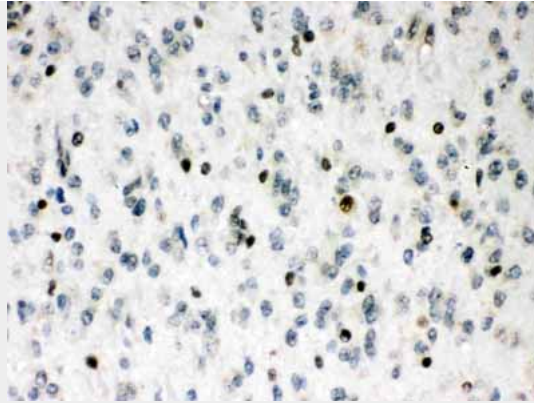
Western blot analysis of MEF2A expression in rat thymus extract (lane 1) and HELA whole cell lysates (lane 2). MEF2A at 56KD was detected using rabbit anti-MEF2A Antigen Affinity purified polyclonal antibody (Catalog # ABO12638) at 0.5 μ g/mL. The blot was developed using chemiluminescence (ECL) method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



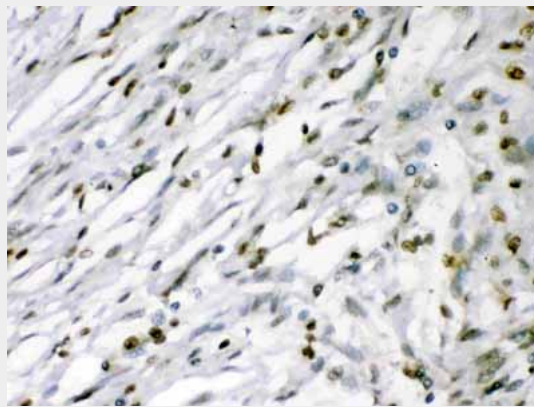
MEF2A was detected in paraffin-embedded sections of mouse brain tissues using rabbit anti-MEF2A Antigen Affinity purified polyclonal antibody (Catalog # ABO12638) at 1 μ g/mL. The immunohistochemical section was developed using SABC method .



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



MEF2A was detected in paraffin-embedded sections of human glioma tissues using rabbit anti-MEF2A Antigen Affinity purified polyclonal antibody (Catalog # ABO12638) at 1 µg/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 µg/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.