

Anti-MEF2A Picoband Antibody

Catalog # ABO12638

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.

Additional Information

Gene ID	4205
Other Names	Myocyte-specific enhancer factor 2A, Serum response factor-like protein 1, MEF2A, MEF2
Calculated MW	54811
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5 μ g/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. .
Source	Eukaryota
Protein Name	Myocyte-specific enhancer factor 2A
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
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.

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

Background

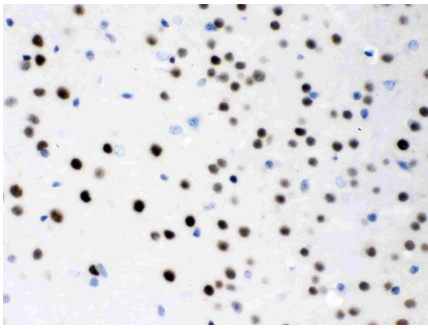
Myocyte-specific enhancer factor 2A is a protein that in humans is encoded by the MEF2A gene. It is mapped to 15q26. The protein encoded by this gene is a DNA-binding transcription factor that activates many muscle-specific, growth factor-induced, and stress-induced genes. The encoded protein can act 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.

Images

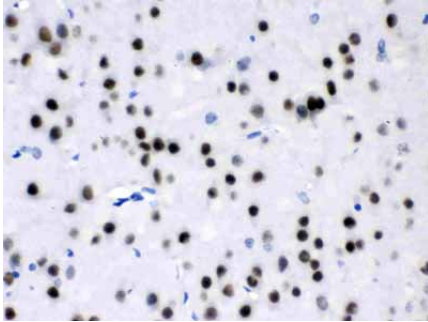


Western blot analysis of MEF2A expression in rat thymus extract (lane 1) and HELA whole cell lysates (lane 2). MEF2A at 56KD was detected using rabbit anti-MEF2A Antigen Affinity purified polyclonal antibody (Catalog # ABO12638) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method.

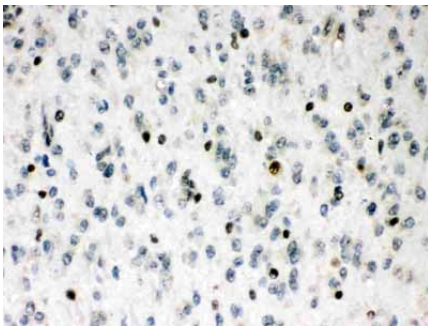
MEF2A was detected in paraffin-embedded sections of



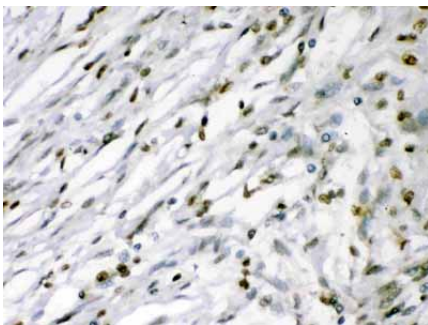
mouse brain tissues using rabbit anti- MEF2A Antigen Affinity purified polyclonal antibody (Catalog # ABO12638) at 1 μ g/mL. The immunohistochemical section was developed using SABC method .



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 μ g/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 μ g/mL. The immunohistochemical section was developed using SABC method .

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.