

Rabbit Anti-MEF2A Polyclonal Antibody

CPB-825RH Rabbit(MEF2A)

Lot. No. (See product label)

PRODUCT INFORMATION

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| Product Overview | Rabbit Anti-MEF2A Polyclonal Antibody |
| Antigen Description | 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. |
| specificity | The antibody detects endogenous level of MEF2A only when phosphorylated at serine 408. |
| Target | MEF2A |
| Immunogen | Peptide sequence around phosphorylation site of serine 408 (P-I-S(p)-P-P) derived from Human MEF2A. |
| Host | Rabbit |
| Species | Human |
| Cross Reactivity | Human, Mouse, Rat |
| conjugation | N/A |
| Applications | IHC |

PACKAGING

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| Format | Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Storage | Store at -20°C/ 1year |

ANTIGEN GENE INFORMATION

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| Gene Name | MEF2A myocyte enhancer factor 2A [Homo sapiens] |
| Official Symbol | MEF2A |
| Synonyms | MEF2A; myocyte enhancer factor 2A; myocyte-specific enhancer factor 2A; serum response factor-like protein 1; MADS box transcription enhancer factor 2, polypeptide A (myocyte enhancer factor 2A); mef2; ADCAD1; RSRFC4; RSRFC9; |
| GeneID | 4205 |
| mRNA Refseq | NM_001130926 |
| Protein Refseq | NP_001124398 |

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| Pathway | Activated TLR4 signalling, organism-specific biosystem; Adipogenesis, organism-specific biosystem; CDO in myogenesis, organism-specific biosystem; Developmental Biology, organism-specific biosystem; ERK/MAPK targets, organism-specific biosystem; Energy Metabolism, organism-specific biosystem; Immune System, organism-specific biosystem; |
| Function | RNA polymerase II regulatory region sequence-specific DNA binding; RNA polymerase II transcription coactivator activity; RNA polymerase II transcription factor binding; SMAD binding; activating transcription factor binding; chromatin binding; histone acetyltransferase binding; histone deacetylase binding; protein binding; contributes to protein binding; protein heterodimerization activity; protein kinase binding; sequence-specific DNA binding; sequence-specific DNA binding RNA polymerase II transcription factor activity; sequence-specific DNA binding transcription factor activity; sequence-specific distal enhancer binding RNA polymerase II transcription factor activity; |