MEF2a(Phospho-Thr319) Antibody

Catalog No: #11040

Package Size: #11040-1 50ul #11040-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

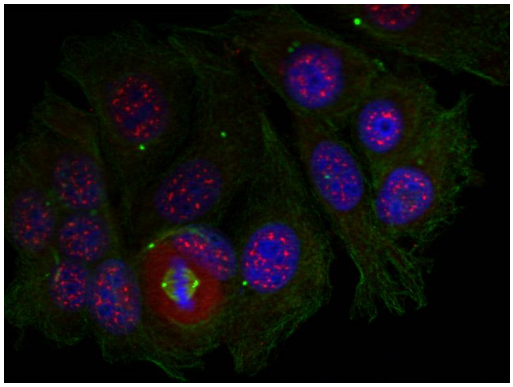
Product Name	MEF2a(Phospho-Thr319) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.
Applications	IF
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of MEF2A only when phosphorylated at Thr319.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of Thr319 (V-T-T(p)-P-S) derived from Human MEF2A.
Target Name	MEF2a
Modification	Phospho
Other Names	MEF2; Serum response factor-like protein 1;
Accession No.	Swiss-Prot: Q02078NCBI Protein: NP_001124398.1
Uniprot	Q02078
GeneID	4205;
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

Application Details

Predicted MW: 54kd

Immunofluorescence: 1:100~1:200

Images



Immunofluorescence staining of methanol-fixed Hela cells using MEF2A(Phospho-Thr319) Antibody #11040.

Background

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

Shore, P. et al. (1995) Eur. J. Biochem. 229, 1-13
Martin, J.F. et al. (1994) Mol. Cell. Biol. 14, 1647-1656
Yu, Y.T. et al. (1992) Genes Dev. 6, 1783-1798
Zhao, M. et al. (1999) Mol. Cell. Biol. 19, 21-30

Note: This product is for in vitro research use only