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

Phospho-MEF2C(S396) Antibody
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP3383a

Specification

Phospho-MEF2C(S396) Antibody - Product Information

Application	**DB,E**
Primary Accession	Q06413
Other Accession	A4UTP7, A0A096MJY4
Reactivity	**Human**
Predicted	**Pig, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**

Phospho-MEF2C(S396) Antibody - Additional Information

Gene ID 4208

Other Names
Myocyte-specific enhancer factor 2C, MEF2C

Target/Specificity
This MEF2C Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S396 of human MEF2C.

Dilution
DB~~1:500

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Phospho-MEF2C(S396) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Phospho-MEF2C(S396) Antibody - Protein Information

Name MEF2C (HGNC:6996)

Function Transcription activator which binds specifically to the MEF2 element present in the regulatory regions of many muscle-specific genes. Controls cardiac morphogenesis and myogenesis, and is also involved in vascular development. Enhances transcriptional activation

mediated by SOX18. Plays an essential role in hippocampal-dependent learning and memory by suppressing the number of excitatory synapses and thus regulating basal and evoked synaptic transmission. Crucial for normal neuronal development, distribution, and electrical activity in the neocortex. Necessary for proper development of megakaryocytes and platelets and for bone marrow B-lymphopoiesis. Required for B-cell survival and proliferation in response to BCR stimulation, efficient IgG1 antibody responses to T-cell-dependent antigens and for normal induction of germinal center B-cells. May also be involved in neurogenesis and in the development of cortical architecture (By similarity). Isoforms that lack the repressor domain are more active than isoform 1.

Cellular Location
Nucleus {ECO:0000250|UniProtKB:A0A096MJY4}. Cytoplasm, sarcoplasm {ECO:0000250|UniProtKB:A0A096MJY4}

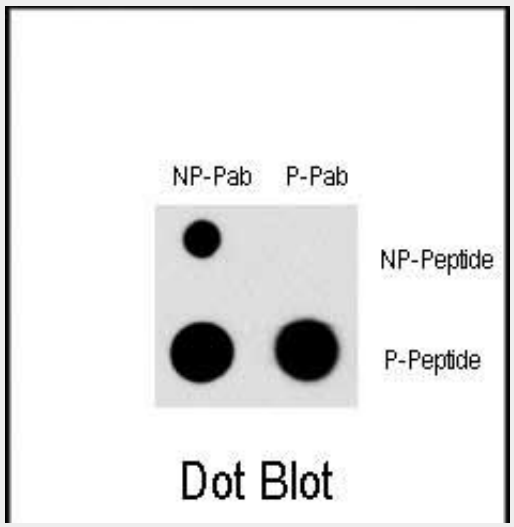
Tissue Location
Expressed in brain and skeletal muscle.

Phospho-MEF2C(S396) 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

Phospho-MEF2C(S396) Antibody - Images



Dot blot analysis of Phospho-MEF2C-S396 Antibody (Cat. #AP3383a) and MEF2C Non Phospho-specific Pab on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5ug per ml.

Phospho-MEF2C(S396) Antibody - Background

MEF2C is a transcription activator which binds specifically to the MEF2 element present in the regulatory regions of many muscle-specific genes. This protein controls cardiac morphogenesis and myogenesis, and is also involved in vascular development. It may also be involved in neurogenesis and in the development of cortical architecture.

Phospho-MEF2C(S396) Antibody - References

Konig, S., et al., J. Biol. Chem. 279(27):28187-28196 (2004).
Maeda, T., et al., J. Biol. Chem. 277(50):48889-48898 (2002).
Maeda, T., et al., Biochem. Biophys. Res. Commun. 294(4):791-797 (2002).
Janson, C.G., et al., Brain Res. Mol. Brain Res. 97(1):70-82 (2001).
Krainc, D., et al., Genomics 29(3):809-811 (1995).