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MEF2C Antibody (T300) Blocking Peptide

Synthetic peptide
Catalog # BP6285d

Specification

MEF2C Antibody (T300) Blocking Peptide - Product Information

Primary Accession Q06413

MEF2C Antibody (T300) Blocking Peptide - Additional Information

Gene ID 4208

Other Names
Myocyte-specific enhancer factor 2C, MEF2C

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP6285d was selected from the T300 region of human MEF2C. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

MEF2C Antibody (T300) Blocking Peptide - Protein Information

Name MEF2C (HGNC:6996)

Function

MEF2C Antibody (T300) Blocking Peptide - 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.

MEF2C Antibody (T300) Blocking Peptide - 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).

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.

MEF2C Antibody (T300) Blocking Peptide - Protocols

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

- Blocking Peptides