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Phospho-MEF2C(T20) Antibody

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP3324a

Product Information

Application	DB, E
Primary Accession	Q06413
Other Accession	Q03413, O89038, Q63943, Q14814, A4UTP7, Q8CFN5, Q2KIA0, Q03414, Q2MJT0, A2ICN5, Q60929, Q02078, Q9W6U8, A2VDZ3
Reactivity	Human
Predicted	Bovine, Chicken, Mouse, Pig, Rat, Xenopus
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB11186
Calculated MW	51221

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 T20 of human MEF2C.
Dilution	DB~~1:500 E~~Use at an assay dependent concentration.
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(T20) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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.

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.

References

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Maeda, T., et al., J. Biol. Chem. 277(50):48889-48898 (2002).
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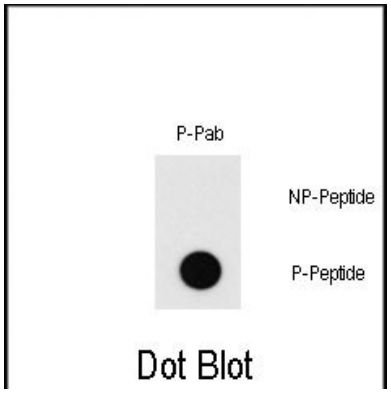
Janson, C.G., et al., Brain Res. Mol. Brain Res. 97(1):70-82 (2001).
Krainc, D., et al., Genomics 29(3):809-811 (1995).

Images



Dot blot analysis of Phospho-MEF2C-T20 Pab (Cat.AP3324a) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentration was 0.5ug per ml. P-Pab: phospho-antibody; P-Peptide: phospho-peptide; NP-Peptide: non-phospho-peptide.