

# Product datasheet for AP01835PU-N

## MEF2D pSer444 Rabbit Polyclonal Antibody

## **Product data:**

#### OriGene Technologies, Inc.

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Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Western Blot: 1/500-1/1000. Immunohistochemistry on Paraffin Sections: 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic phosphopeptide derived from human MEF2D around the phosphorylation site of Serine 444.
Specificity:	This antibody detects endogenous levels of MEF2D pSer444 protein.
Formulation:	Phosphate buffered saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE). Preservative: 0.05% Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen.
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Predicted Protein Size:	~ 56 kDa
Gene Name:	myocyte enhancer factor 2D
Database Link:	<u>Entrez Gene 4209 Human</u> <u>Q14814</u>



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#### **GRIGENE** MEF2D pSer444 Rabbit Polyclonal Antibody – AP01835PU-N

Background:The myocyte enhancer factor-2 (MEF-2) family of transcription factors associated with co-<br/>repessors or co-activators to regulate development and function of T cells, neuronal cells and<br/>muscle cells. Four family members arise from alternatively spliced transcripts, termed MEF-<br/>2A, -2B, -2C and -2D. These members bind as homo- and heterodimers to the MEF-2 site in<br/>the promoter region of affected genes. Differential regulation in the expression of the four<br/>transcripts implies functional distinction for each during embryogenesis and development.<br/>The process of differentiation from mesodermal precursor cells to myoblasts has led to the<br/>discovery of a variety of tissue-specific factors that regulate muscle gene expression. The<br/>myogenic basic helix-loop-helix proteins, including MyoD, myogenin, Myf-5 and MRF-4, are<br/>one class of identified factors. A second family of DNA binding regulatory proteins is the<br/>myocyte-specific enhancer factor-2 (MEF-2) family. Each of these proteins binds to the MEF-2<br/>target DNA sequence present in the regulatory regions of many muscle-specific genes.

#### Synonyms:

Myocyte-specific enhancer factor 2D

### **Product images:**



Western blot (WB) analysis of MEF2D pSer444 antibody at 1/500 dilution: Lane 1: HEK293T cell lysate. Lane 2: Raw264.7 cell lysate. Lane 3: PC12 cell lysate.



Immunohistochemistry (IHC) analysis of MEF2D pSer444 antibody in paraffin-embedded human lung carcinoma tissue.

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Immunohistochemistry (IHC) analysis of MEF2D pSer444 antibody in paraffin-embedded human liver carcinoma tissue at 1/100.

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