

## Product datasheet for **AP01835PU-N**

### MEF2D pSer444 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	<b>Western Blot:</b> 1/500-1/1000. <b>Immunohistochemistry on Paraffin Sections:</b> 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:	<a href="#">Entrez Gene 4209 Human Q14814</a>



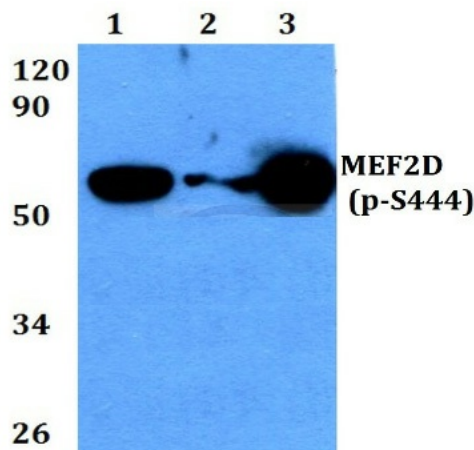
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**Background:**

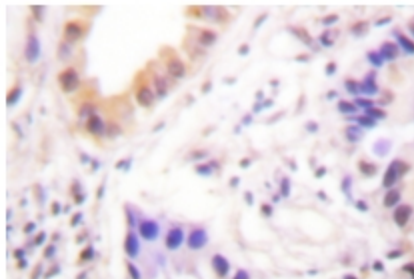
The myocyte enhancer factor-2 (MEF-2) family of transcription factors associated with co-repressors or co-activators to regulate development and function of T cells, neuronal cells and muscle cells. Four family members arise from alternatively spliced transcripts, termed MEF-2A, -2B, -2C and -2D. These members bind as homo- and heterodimers to the MEF-2 site in the promoter region of affected genes. Differential regulation in the expression of the four transcripts implies functional distinction for each during embryogenesis and development. 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, myogenin, Myf-5 and MRF-4, are one class of identified factors. A second family of DNA binding regulatory proteins is the myocyte-specific enhancer factor-2 (MEF-2) family. Each of these proteins binds to the MEF-2 target DNA sequence present in the regulatory regions of many muscle-specific genes.

**Synonyms:**

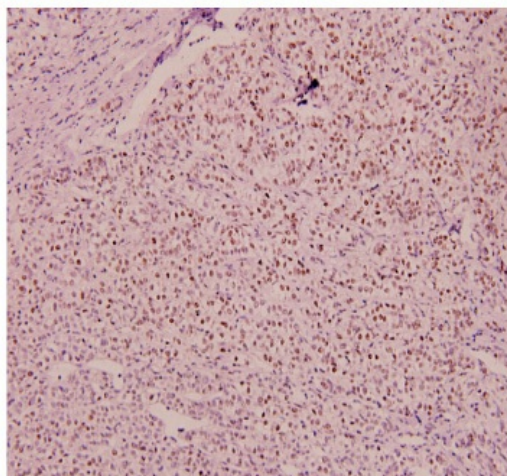
Myocyte-specific enhancer factor 2D

**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.



Immunohistochemistry (IHC) analysis of MEF2D pSer44 antibody in paraffin-embedded human liver carcinoma tissue at 1/100.