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Product datasheet for AP01632PU-M

MEF2A pThr312 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC, IP, WB
Recommended Dilution:	ELISA: 1/20000-1/40000. Western Blot: 1/500-1/1000. Immunohistochemistry: 1/50-1/200. Immunoprecipitation: 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of MEF2A protein only when phosphorylated at Thr312.
Formulation:	Phosphate buffered saline (PBS), pH~7.2 containing 0.05% Sodium Azide as preservative. State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE).
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen.
Conjugation:	Unconjugated
Storage:	Store the antibody 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.
Gene Name:	myocyte enhancer factor 2A
Database Link:	Entrez Gene 4205 Human Q02078

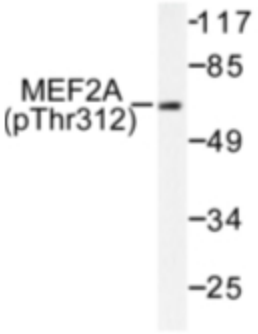
View online »

Background: MEF-2 is a muscle-specific DNA binding protein that recognizes an A+T-rich sequence [CTA (A/T)4 TAG] localized in the control regions of numerous muscle-specific genes. MEF-2 belongs to the MADS (MCM1, Agamous, Deficiens and serum-response factor) box family of transcription factors. The MEF-2 proteins arise from several alternatively spliced isoforms of the MEF-2 gene. MEF-2 expression is ubiquitous, but appears to be preferential in skeletal and cardiac muscle cells. Phosphorylation of different MEF-2C isoforms affects their expression pattern and transactivation function. Big MAP kinase 1 (BMK1) enhances the transactivation activity of MEF-2C by phosphorylating Ser 387. Serum is a potent stimulator of BMK1-induced MEF-2C phosphorylation. p38 MAPK can phosphorylate MEF-2C at positions Ser 387, Thr 293 and Thr 300. Phosphorylation of MEF-2C by either p38 MAPK or ERK5/BMK1 is necessary for Smad-MEF-2 signaling cooperativity.

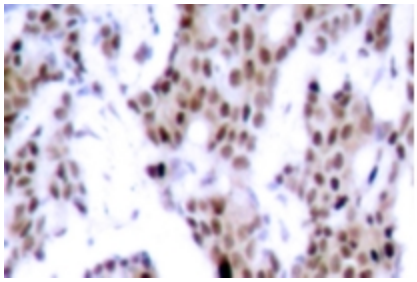
Synonyms: MEF2, Myocyte-specific enhancer factor 2A

Note: Molecular Weight: ~55.0 kDa

Product images:



Western blot (WB) analysis of MEF2A pThr312 antibody in extracts from NIH/3T3 cells.



Immunohistochemistry (IHC) analysis of MEF2A pThr312 antibody in paraffin-embedded human breast carcinoma tissue.