

#9737 Store at -20C

Phospho-MEF2A (Ser408) Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB	Reactivity: H	Sensitivity: Transfected Only	MW (kDa): 54	Source: Rabbit	UniProt ID: #Q02078	Entrez-Gene Id: 4205
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Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	Phospho-MEF2A (Ser408) Antibody detects transfected levels of MEF2A only when phosphorylated at Ser408. The antibody has also been shown to detect phospho-MEF2A (Ser408) in granule neurons (see application reference).	
Species predicted to react based on 100% sequence homology:	Mouse	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser408 of human MEF2A. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	MEF2A is a member of the MEF2 (myocyte enhancer factor 2) family of transcription factors. In mammals, four MEF2A-related genes (MEF2A, MEF2B, MEF2C and MEF2D) encode proteins which exhibit significant amino acid sequence similarity within their DNA binding domains and to a lesser extent throughout the remaining proteins (1). The MEF2 family members were originally described as muscle-specific DNA binding proteins that recognize MEF2 motifs found within the promoters of many muscle-specific genes (2,3). Phosphorylation of MEF2A at Thr312 and Thr319 within the transcription activation domain by p38 MAP kinase enhances MEF2A-MEF2D heterodimer-dependent gene expression (4). On the other hand, apoptotic stimuli (e.g. neurotoxic insult) result in CDK5-dependent phosphorylation of MEF2A at Ser408 within the activation domain, inhibiting MEF2A pro-survival function (5).	
Background References	<ol style="list-style-type: none"> 1. Shore, P. et al. (1995) <i>Eur. J. Biochem.</i> 229, 1-13. 2. Martin, J.F. et al. (1994) <i>Mol. Cell. Biol.</i> 14, 1647-1656. 3. Yu, Y.T. et al. (1992) <i>Genes Dev.</i> 6, 1783-1798. 4. Zhao, M. et al. (1999) <i>Mol. Cell. Biol.</i> 19, 21-30. 5. Gong, X. et al. (2003) <i>Neuron</i> 38, 33-46. 	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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