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Anti-MEF2A (pS408) Antibody

Rabbit polyclonal antibody to MEF2A (pS408)
Catalog # AP61059

Specification

Anti-MEF2A (pS408) Antibody - Product Information

Application	**WB, IF**
Primary Accession	Q02078
Other Accession	Q60929
Reactivity	**Human, Mouse, Rat, Pig, Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**54811**

Anti-MEF2A (pS408) Antibody - Additional Information

Gene ID 4205

Other Names
MEF2; Myocyte-specific enhancer factor 2A; Serum response factor-like protein 1

Target/Specificity
Recognizes endogenous levels of MEF2A (pS408) protein.

Dilution
WB~~WB (1/500 - 1/1000), IH (1/50 - 1/100), IF/IC (1/100 - 1/500)
IF~~WB (1/500 - 1/1000), IH (1/50 - 1/100), IF/IC (1/100 - 1/500)

Format
Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage
Store at -20 °C.Stable for 12 months from date of receipt

Anti-MEF2A (pS408) Antibody - Protein Information

Name MEF2A

Synonyms MEF2

Function
Transcriptional activator which binds specifically to the MEF2 element, 5'-YTA[AT](4)TAR-3', found in numerous muscle-specific genes. Also involved in the activation of numerous growth factor- and stress-induced genes. Mediates cellular functions not only in skeletal and cardiac muscle development, but also in neuronal differentiation and survival. Plays diverse roles in the control of cell growth, survival and apoptosis via p38 MAPK signaling in muscle-specific and/or growth factor-related transcription. In cerebellar granule neurons, phosphorylated and sumoylated MEF2A

represses transcription of NUR77 promoting synaptic differentiation. Associates with chromatin to the ZNF16 promoter.

Cellular Location
Nucleus {ECO:0000255|PROSITE-ProRule:PRU00251, ECO:0000269|PubMed:12691662, ECO:0000269|PubMed:16563226}

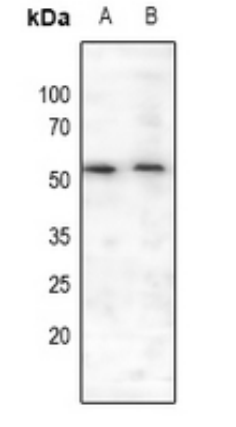
Tissue Location
Isoform MEF2 and isoform MEFA are expressed only in skeletal and cardiac muscle and in the brain. Isoform RSRFC4 and isoform RSRFC9 are expressed in all tissues examined

Anti-MEF2A (pS408) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-MEF2A (pS408) Antibody - Images



Western blot analysis of MEF2A (pS408) expression in HEK293T (A), A549 (B) whole cell lysates.

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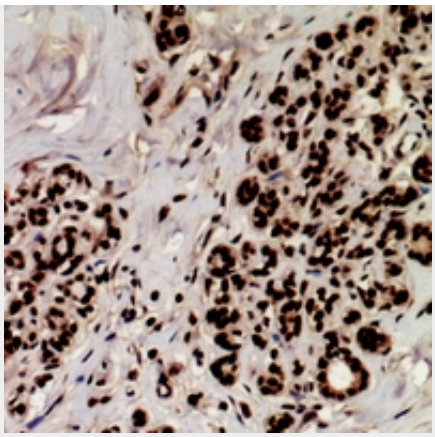
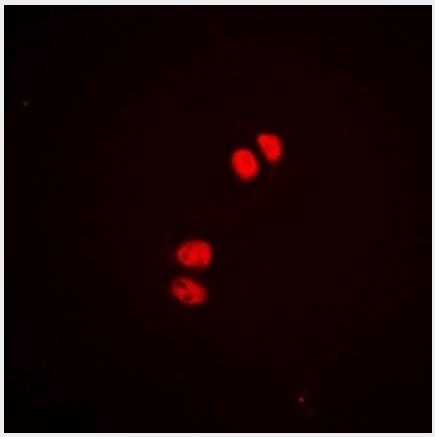


Immunohistochemical analysis of MEF2A (pS408) staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of MEF2A (pS408) staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with Alexa Fluor 647-conjugated secondary antibody (red) in PBS at room temperature in the dark.

Anti-MEF2A (pS408) Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human MEF2A. The exact sequence is proprietary.