MEF2A(Ab-312) Antibody

#21039

Catalog Number: 21039-1, 21039-2

Amount: 50μg/50μl, 100μg/100μl

Swiss-Prot No. :Q02078

Form of Antibody: Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl,0.02% sodium azide and 50% glycerol.

Storage/Stability: Store at -20℃/1 year

Immunogen: The antiserum was produced against synthesized non-phosphopeptide derived from Human MEF2A around the phosphorylation site of threonine 312 (L-A-Tp-P-V).

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

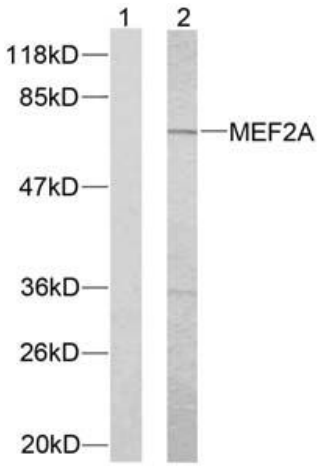
Specificity/Sensitivity:MEF2A (Ab-312) antibody detects endogenous levels of total MEF2A protein

Reactivity: Human,Mouse,Rat

Applications:

Predicted MW: 54kd

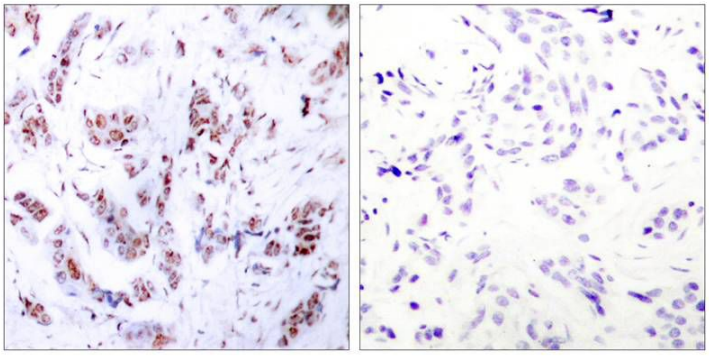
WB: 1:500~1:1000 IHC: 1:50~1:100



PMA + +

Peptide + -

Western blot analysis of extracts from NIH/3T3 cells using MEF2A (Ab-312) antibody (#21039).



Immunohistochemical analysis of paraffin-embedded

human breast carcinoma tissue, using MEF2A (Ab-312)

antibody (#21039).

Background :

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 (MIM 159970), myogenin (MIM 159980), MYF5 (MIM 159990), and MRF4 (MIM 159991) are one class of identified factors. A second family of DNA binding regulatory proteins is the myocyte-specific enhancer factor-2 (MEF2) family. Each of these proteins binds to the MEF2 target DNA sequence present in the regulatory regions of many, if not all, muscle-specific genes. The MEF2 genes are members of the MADS gene family (named for the yeast mating type-specific transcription factor MCM1, the plant homeotic genes 'agamous' and 'deficiens' and the human serum response factor SRF (MIM 600589)), a family that also includes several homeotic genes and other transcription factors, all of which share a conserved DNA-binding domain

References：

Kato Y, et al. (2000) J Biol Chem. 275(24): 18534-18540.

Zhao M, et al. (1999) Mol Cell Biol. 19(1): 21-30.