

35-1038: Polyclonal Antibody to MEF2A (Phospho-Thr312)

Clonality :	Polyclonal
Application :	IHC,WB,IF
Reactivity :	Rat,Mouse,Human
Gene :	MEF2A
Gene ID :	4205
Uniprot ID :	Q02078
Format :	Purified
Alternative Name :	MEF2,ADCAD1,RSRFC4,RSRFC9
Isotype :	Rabbit IgG
Immunogen Information :	Peptide sequence around phosphorylation site of threonine 312 (L-A-T(p)-P-V) derived from Human MEF2A.

Description

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 .

Product Info

Amount :	50 μ l / 100 μ l
Content :	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage condition :	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Predicted MW: 54kd, Immunohistochemistry: 1:50~1:100, Immunofluorescence: 1:100~1:200

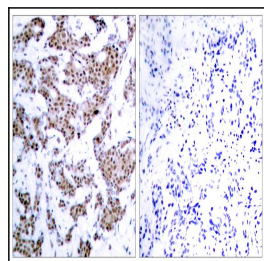


Figure 1: Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using MEF2A(Phospho-Thr312) Antibody 35-1038 (left) or the same antibody preincubated with blocking peptide(right).

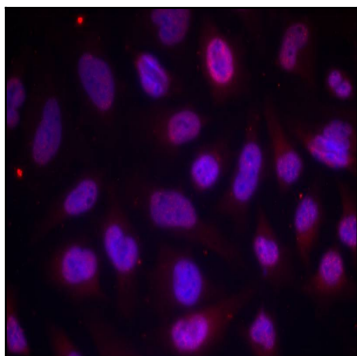


Figure 2: Immunofluorescence staining of methanol-fixed HeLa cells using MEF2A(Phospho-Thr312) Antibody 35-1038 .

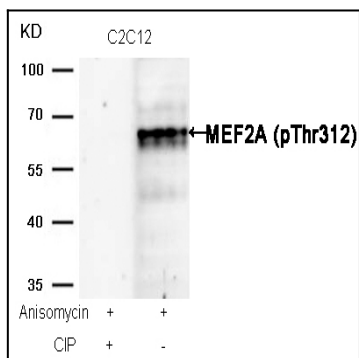


Figure 3: Western blot analysis of extracts from C2C12 cells, treated with Anisomycin or calf intestinal phosphatase (CIP), using MEF2A (Phospho-Thr312) Antibody 35-1038 .