

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

|                                |  |
|--------------------------------|--|
| <b>Clonality :</b>             | Polyclonal   |
| <b>Application :</b>           | IHC,WB,IF  |
| <b>Reactivity :</b>            | Rat,Mouse,Human  |
| <b>Gene :</b>                  | MEF2A  |
| <b>Gene ID :</b>               | 4205   |
| <b>Uniprot ID :</b>            | Q02078   |
| <b>Format :</b>                | Purified   |
| <b>Alternative Name :</b>      | MEF2,ADCAD1,RSRFC4,RSRFC9  |
| <b>Isotype :</b>               | Rabbit IgG   |
| <b>Immunogen Information :</b> | 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

|                            |  |
|----------------------------|--|
| <b>Amount :</b>            | 50 µl / 100 µl   |
| <b>Content :</b>           | Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| <b>Storage condition :</b> | 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

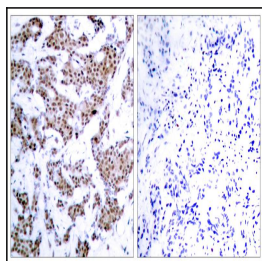


Figure 1: Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using MEF2A(Phospho-Thr312) Antibody 35-1038 (left) or the same antibody preincubated with blocking peptide(right).

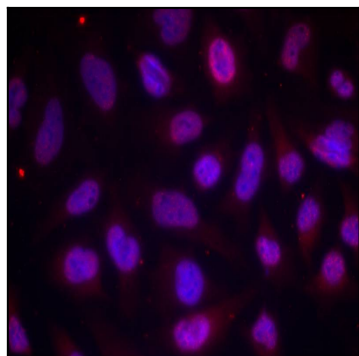


Figure 2: Immunofluorescence staining of methanol-fixed HeLa cells using MEF2A(Phospho-Thr312) Antibody 35-1038 .

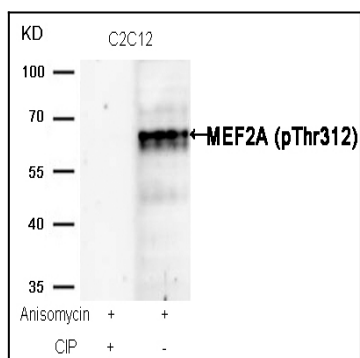


Figure 3: Western blot analysis of extracts from C2C12 cells, treated with Anisomycin or calf intestinal phosphatase (CIP), using MEF2A (Phospho-Thr312) Antibody 35-1038 .