

MEF2a (Phospho-Thr312) Polyclonal Antibody

ORDERING INFORMATION

Catalog No.: 43039

Format: 100ul at 1.0mg/ml in PBS (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Affinity-purified on phosphopeptide; non-phosphopeptide-reactive antibodies were removed by chromatography on non-phosphorylated peptide.

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 including the DNA binding regulatory protein 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 muscle-specific genes. The MEF2 genes are members of the MADS gene family that also includes several homeotic genes and other transcription factors all of which share a conserved DNA-binding domain.

SPECIFICATION SUMMARY

Antigen: Peptide sequence that includes phosphorylation site of threonine 312 (L-A-T(p)-P-V) derived from human MEF2a and conjugated to KLH.

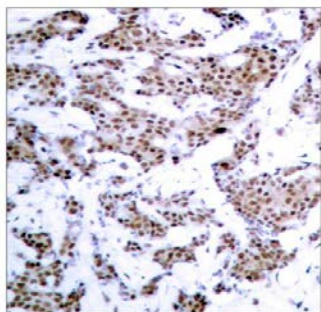
Accession no.: Q02078, NP_001124398.1

Host Species: Rabbit

Specificity: This antibody detects endogenous human, mouse, and rat MEF2a only when phosphorylated at threonine 312.

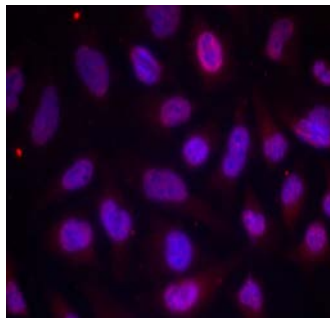
APPLICATION

Immunohistochemistry: use at dilution of 1:50-1:100.



Detection of MEF2a (phospho-Thr312) in paraffin-embedded human breast carcinoma tissue.

Immunofluorescence: use at dilution of 1:100-1:200.



Detection of MEF2a (phospho-Thr312) in methanol-fixed HeLa cells.

These are recommended working dilutions. Enduser should determine optimal dilutions for their applications.

DILUTION INSTRUCTIONS

Dilute in PBS or medium that is identical to that used in the assay system.

STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Can be stored at 4°C for short-term use.

For in vitro investigational use only. Not intended for therapeutic or diagnostic applications.