Product Datasheet

MEF2a(Phospho-Ser408) Antibody

Catalog No: #11309

Package Size: #11309-1 50ul #11309-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

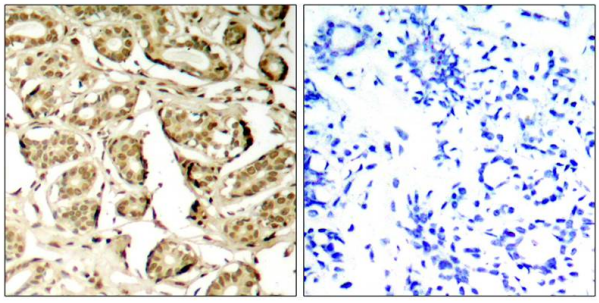
Product Name	MEF2a(Phospho-Ser408) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.
Applications	IHC
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of MEF2A only when phosphorylated at serine 408.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of serine 408 (P-I-S(p)-P-P) derived from Human MEF2A.
Target Name	MEF2a
Modification	Phospho
Other Names	MEF2; Serum response factor-like protein 1;
Accession No.	Swiss-Prot: Q02078NCBI Protein: NP_001124398.1
Uniprot	Q02078
GeneID	4205;
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

Application Details

Predicted MW: 54kd

Immunohistochemistry: 1:50~1:100

Images



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using MEF2A(Phospho-Ser408) Antibody #11309(left) or the same antibody preincubated with blocking peptide(right).

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

Okamoto SI, et al. (2002) Proc Natl Acad Sci USA; 99(6): 3974-3979.
Quinn ZA, et al. (2001) Nucleic Acids Res; 29(3): 732-742.
Kato Y, et al. (2000) J Biol Chem. 275(24): 18534-18540.
De Angelis L, et al. (1998) Proc Natl Acad Sci USA; 95(21): 12358-12363.

Note: This product is for in vitro research use only