[KD Validated] Anti-MEF2A Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R021162

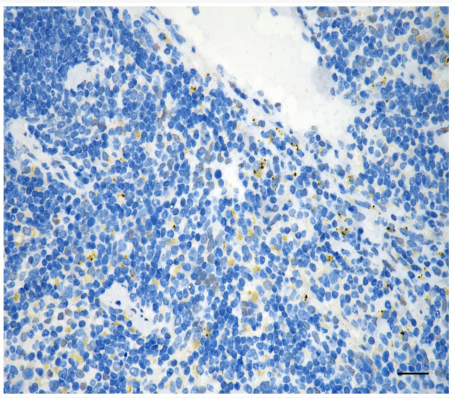
Product Information

Application	WB, IHC-P/IF (Tissue-P)
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:5,000; IHC-P 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	92J73H09
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human MEF2A
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 12 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	[KD Validated] Anti-MEF2A Rabbit mAb [92J73H09] is for research use only and not for use in diagnostic or therapeutic procedures.

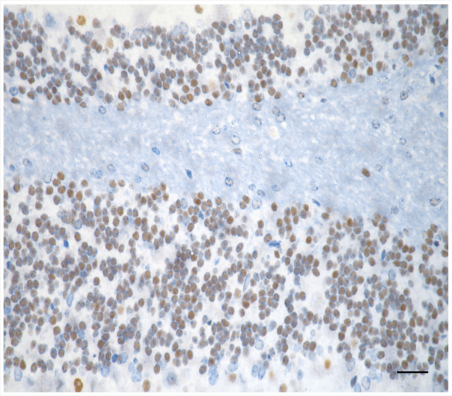
Protein Information

Synonyms	Myocyte Enhancer Factor 2A; RSRFC; RSRFC9; Serum Response Factor-Like Protein 1; Myocyte-Specific Enhancer Factor 2A; MADS Box Transcription Enhancer Factor 2, Polypeptide A (Myocyte Enhancer Factor 2A); ADCAD1; Mef2; MEF2.
Calculated MW	Calculated MW: 55 kDa; Observed MW: 50-70 kDa
Uniprot ID	Q02078
Gene ID	4205
Background	Transcriptional activator which binds specifically to the MEF2 element, 5'-YTA[AT]4TAR-3', found in numerous muscle-specific genes. Also involved in the activation of numerous growth factor- and stress-induced genes. Mediates cellular functions not only in skeletal and cardiac muscle development, but also in neuronal differentiation and survival. Plays diverse roles in the control of cell growth, survival and apoptosis via p38 MAPK signaling in muscle-specific and/or growth factor-related transcription. In cerebellar granule neurons, phosphorylated and sumoylated MEF2A represses transcription of NUR77 promoting synaptic differentiation. Associates with chromatin to the ZNF16 promoter.

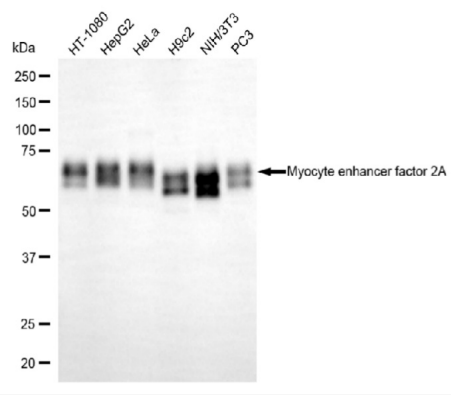
Validation Images



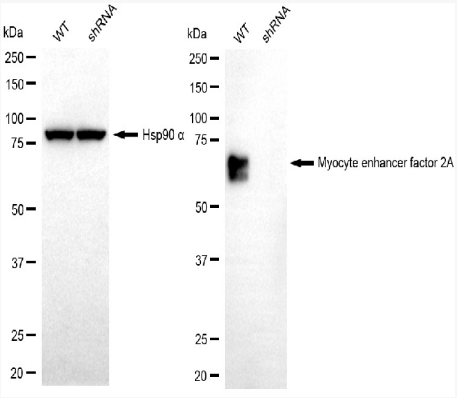
Immunohistochemistry was performed on paraffin-embedded mouse spleen using myocyte enhancer factor 2A antibody (R021162, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunohistochemistry was performed on paraffin-embedded mouse brain using myocyte enhancer factor 2A antibody (R021162, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Western blotting analysis using myocyte enhancer factor 2A antibody (R021162). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with myocyte enhancer factor 2A antibody (R021162, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.



Western blotting analysis using myocyte enhancer factor 2A antibody (R021162). Myocyte enhancer factor 2A expression in wild-type (WT) and myocyte enhancer factor 2A (MEF2A) shRNA knockdown (KD) HepG2 cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with myocyte enhancer factor 2A antibody (R021162, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.