

Datasheet for ABIN2780691
anti-MEF2A antibody (N-Term)



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2 Images

Overview

Quantity:	100 µL
Target:	MEF2A
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Cow, Horse, Dog, Rabbit, Guinea Pig, Zebrafish (Danio rerio), Sheep
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MEF2A antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human MEF2A
Sequence:	GRKKIQITRI MDERNRQVTF TKRKFGMLMK AYELSVLCDC EIALIIFNSS
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Sheep: 100%, Zebrafish: 100%
Characteristics:	This is a rabbit polyclonal antibody against MEF2A. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	MEF2A
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Target Details

Alternative Name: MEF2A ([MEF2A Products](#))

Background: 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. 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 (MIM159970), myogenin (MIM 159980), MYF5 (MIM 159990), and MRF4 (MIM159991) 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. 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. [supplied by OMIM]. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.

Alias Symbols: ADCAD1, RSRFC4, RSRFC9, mef2

Protein Interaction Partner: HDAC7, HDAC5, HDAC3, TAF8, GNG12, TBP, GNB2, ERBB2IP, NDUFB9, DDB1, Dlg4, PHB2, ASCL1, SUMO1, UBE2I, SUMO2, HNRNPA1, UBC, MEF2D, HDAC1, EP300, HDAC4, ACTN4, THRA, HDAC9, MAPK7, CASP7, SMAD2, SMAD4, MEF2A, CASP3, MAPK14, TEAD1, MYOG, MYOD1, CDK5, VGLL4,

Protein Size: 507

Target Details

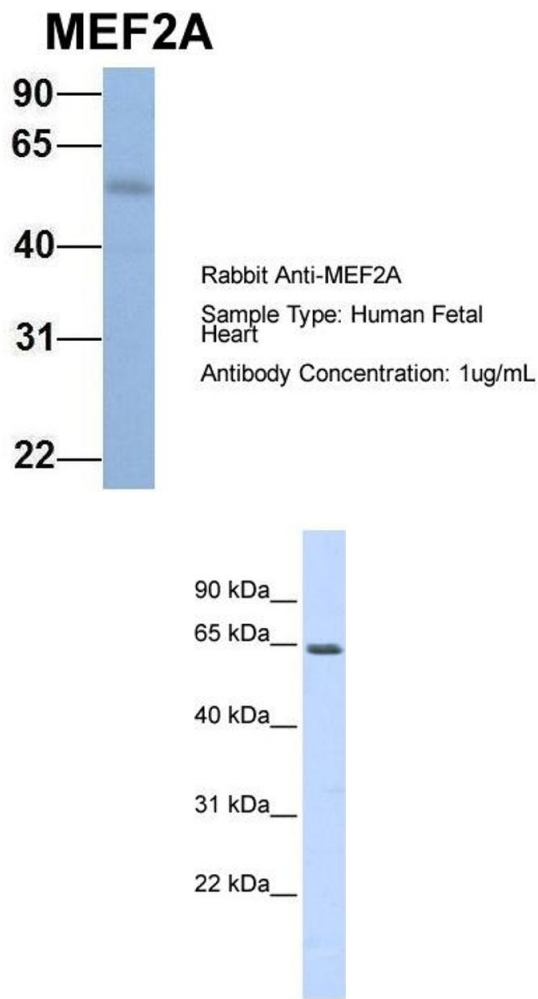
Molecular Weight:	55 kDa
Gene ID:	4205
NCBI Accession:	NM_005587 , NP_005578
UniProt:	Q02078
Pathways:	Neurotrophin Signaling Pathway , Activation of Innate immune Response , Carbohydrate Homeostasis , Chromatin Binding , Regulation of Muscle Cell Differentiation , Toll-Like Receptors Cascades

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 507 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.



Western Blotting

Image 1. Host: Rabbit Target Name: MEF2A Sample Type: Human Fetal Heart Antibody Dilution: 1.0ug/ml

Western Blotting

Image 2. WB Suggested Anti-MEF2A Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:312500 Positive Control: Human Small Intestine