

Datasheet for ABIN966557
anti-MEF2D antibody (N-Term)

4 Publications

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Overview

Quantity:	0.1 mg
Target:	MEF2D
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MEF2D antibody is un-conjugated
Application:	Immunohistochemistry (IHC)

Product Details

Immunogen:	Polyclonal antibody produced in rabbits immunizing with a synthetic peptide corresponding to N-terminal residues of human MEF2D (Myocyte-specific enhancer factor 2D)
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Target Details

Target:	MEF2D
Alternative Name:	MEF2D (MEF2D Products)
Background:	MEF2D (Myocyte-specific enhancer factor 2D) is a transcriptional activator which binds specifically to the MEF2 element, 5'-YTA[AT](4)TAR-3', found in numerous muscle-specific, growth factor- and stress-induced genes. MEF2D mediates cellular functions not only in skeletal and cardiac muscle development, but also in neuronal differentiation and survival. MEF2D plays diverse roles in the control of cell growth, survival and apoptosis via p38 MAPK

Target Details

signaling in muscle-specific and/or growth factor-related transcription. MEF2D plays a critical role in the regulation of neuronal apoptosis (By similarity). MEF2D forms a complex with class II HDACs in undifferentiating cells. On myogenic differentiation, HDACs are released into the cytoplasm allowing MEF2s to interact with other proteins for activation. Interacts with HDAC4 (in undifferentiating cells), the interaction translocates MEF2D to nuclear dots. Forms a heterodimer with MEF2A. Phosphorylated on Ser-444 by CDK5 is required for Lys-439 sumoylation and inhibits transcriptional activity. In neurons, enhanced CDK5 activity induced by neurotoxins promotes caspase 3-mediated cleavage leading to neuron apoptosis. Phosphorylation on Ser-180 can be enhanced by EGF.

Application Details

Restrictions: For Research Use only

Handling

Storage: 4 °C

Publications

Product cited in: Helisalmi, Väkevä, Hiltunen, Soininen: "Flanking markers of cystatin c (CST3) gene do not show association with Alzheimer's disease." in: **Dementia and geriatric cognitive disorders**, Vol. 27, Issue 4, pp. 318-21, (2009) ([PubMed](#)).

Rehman, Fought, Solomon: "N-acetylcysteine effect on serum creatinine and cystatin C levels in CKD patients." in: **Clinical journal of the American Society of Nephrology : CJASN**, Vol. 3, Issue 6, pp. 1610-4, (2008) ([PubMed](#)).