abcam

Product datasheet

Anti-MEF2D antibody ab104515

★★★★★ 1 Abreviews 1 References 2 Images

Overview

Product name Anti-MEF2D antibody

Description Rabbit polyclonal to MEF2D

Host species Rabbit

Tested applications Suitable for: WB

Species reactivity Reacts with: Human

Immunogen Recombinant full length protein within Human MEF2D aa 1-550. The exact immunogen sequence

used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please **contact** our Scientific

Support team to discuss your requirements.

Positive control Human kidney tissue lysate; MEF2D transfected 293T cell lysate

General notes

The Life Science industry has been in the grips of a reproducibility crisis for a number of years.

Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets

your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be

found below, along with publications, customer reviews and Q&As

Properties

Form Liquid

Storage instructions Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

Storage buffer pH: 7.40

Constituent: 100% PBS

Purity Protein A purified

Clonality Polyclonal

Isotype IgG

Applications

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The Abpromise guarantee

Our <u>Abpromise guarantee</u> covers the use of ab104515 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

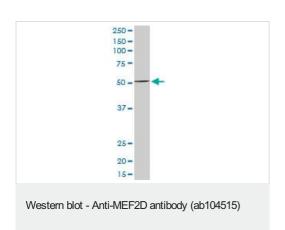
Application	Abreviews	Notes	
WB	★★★★☆ (1)	Use a concentration of 1 µg/ml. Predicted molecular weight: 56 kDa.	

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Function	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. 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. Plays a critical role in the regulation of neuronal apoptosis.		
Sequence similarities	Belongs to the MEF2 family. Contains 1 MADS-box domain. Contains 1 Mef2-type DNA-binding domain.		
Developmental stage	Present in myotubes and also in undifferentiated myoblasts.		
Domain	The beta domain, missing in a number of isoforms, is required for enhancement of transcriptional activity.		
Post-translational modifications	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.		
	Acetylated on Lys-439 by CREBBP. Deacetylated by SIRT1.		
	Sumoylated on Lys-439 by SUMO2 but not SUMO1; which inhibits transcriptional activity and myogenic activity. Desumoylated by SENP3.		
	Proteolytically cleaved in cerebellar granule neurons on several sites by caspase 7 following neurotoxicity. Preferentially cleaves the CDK5-mediated hyperphosphorylated form which leads to neuron apoptosis and transcriptional inactivation.		

Images

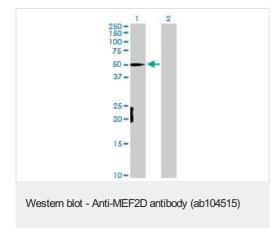
Cellular localization



Anti-MEF2D antibody (ab104515) at 1 μ g/ml + Human kidney tissue lysate at 50 μ g

Predicted band size: 56 kDa

Nucleus. Translocated by HDAC4 to nuclear dots.



All lanes: Anti-MEF2D antibody (ab104515) at 1 µg/ml

Lane 1: MEF2D transfected 293T cell lysate

Lane 2: Non-transfected 293T cell lysate

Lysates/proteins at 25 µg per lane.

Predicted band size: 56 kDa

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- · We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

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