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anti-MECP2 antibody (AA 1-100)





Publication



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Quantity:	100 μL
Target:	MECP2
Binding Specificity:	AA 1-100
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MECP2 antibody is un-conjugated
Application:	Western Blotting (WB)
Product Details	
Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 1-100 of human MECP2 (NP_004983.1).
Sequence:	MVAGMLGLRE EKSEDQDLQG LKDKPLKFKK VKKDKKEEKE GKHEPVQPSA HHSAEPAEAG KAETSEGSGS APAVPEASAS PKQRRSIIRD RGPMYDDPTL
Isotype:	IgG
Cross-Reactivity:	Mouse, Rat
Characteristics:	Polyclonal Antibodies
Target Details	
Target:	MECP2

Target Details

Alternative Name:	MECP2 (MECP2 Products)	
Background:	DNA methylation is the major modification of eukaryotic genomes and plays an essential role in mammalian development. Human proteins MECP2, MBD1, MBD2, MBD3, and MBD4 comprise	
	a family of nuclear proteins related by the presence in each of a methyl-CpG binding domain	
	(MBD). Each of these proteins, with the exception of MBD3, is capable of binding specifically to methylated DNA. MECP2, MBD1 and MBD2 can also repress transcription from methylated	
	gene promoters. In contrast to other MBD family members, MECP2 is X-linked and subject to X	
	inactivation. MECP2 is dispensible in stem cells, but is essential for embryonic development.	
	MECP2 gene mutations are the cause of most cases of Rett syndrome, a progressive	
	neurologic developmental disorder and one of the most common causes of mental retardation	
	in females. Alternative splicing results in multiple transcript variants encoding different	
	isoforms.,MECP2,AUTSX3,MRX16,MRX79,MRXS13,MRXSL,PPMX,RS,RTS,RTT,Epigenetics &	
	Nuclear Signaling,RNA Binding,Neuroscience,Neurodegenerative Diseases,MECP2	
Molecular Weight:	52 kDa/53 kDa	
Gene ID:	4204	
UniProt:	P51608	
Pathways:	Inositol Metabolic Process, Chromatin Binding, Synaptic Membrane	
Application Details		
Application Notes:	WB,1:500 - 1:2000	
Comment:	HIGH QUALITY	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.	
Preservative:	Sodium azide	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.	
Storage:	-20 °C	
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.	
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Product cited in:

Fu, Wang, Wu, Feng, Wang, Zhou, Ma, Wang: "HMGA1 exacerbates tumor growth through regulating the cell cycle and accelerates migration/invasion via targeting miR-221/222 in cervical cancer." in: **Cell death & disease**, Vol. 9, Issue 6, pp. 594, (2018) (PubMed).

Huang, Song, Sun, Zhang, Huang: "IRX5 promotes NF-κB signalling to increase proliferation, migration and invasion via OPN in tongue squamous cell carcinoma." in: **Journal of cellular and molecular medicine**, (2018) (PubMed).

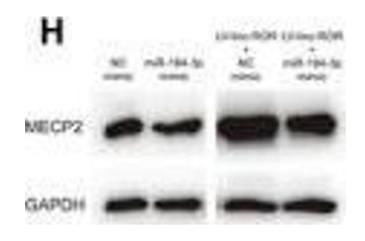
Xing, Yu, Zhang, Luo, Lei, Huang, Lin, Huang, Huang, Nong, Zhou, Wei et al.: "Isoviolanthin Extracted from Dendrobium officinale Reverses TGF-β1-Mediated Epithelial

Mesenchymal Transition in Hepatocellular Carcinoma Cells via Deactivating the TGF-β/Smad and PI3K/Akt/mTOR ..." in: International journal of molecular sciences, Vol. 19, Issue 6, (2018) (PubMed).

"Retracted: 'Anti-fibrotic actions of Ghrelin by inhibition of the NADPH oxidase-ROS signaling pathway' by Qian Wang, Xin Sui, Rui Chen, Peiyong Ma, Tao Ding, Dianjun Sui, and Ping Yang." in: **Clinical and experimental pharmacology & physiology**, Vol. 45, Issue 8, pp. 885, (2018) (PubMed).

Wang, Dong, Liu, Xu, Hu, Fan, Chen: "Early growth response factor-1 DNA enzyme 1 inhibits the formation of abdominal aortic aneurysm in rats." in: **Experimental and therapeutic medicine**, Vol. 16, Issue 1, pp. 141-148, (2018) (PubMed).

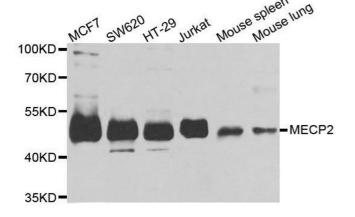
Images



Western Blotting

Image 1. linc-ROR promoted cell proliferation, migration, and invasion of breast cancer through linc-ROR/miR-194-3p/MECP2 regulatory axis. (A) CCK8 proliferation assay revealed that the overexpression of miR-194-3p inhibited cell growth and the rescue of miR-194-3p reduced the promoting effect of linc-ROR on cell growth. (B-C) Transwell migration assay indicated that the overexpression of miR-194-3p inhibited the cell migration and the rescue of miR-

194-3p expression reduced the promoting effect of linc-ROR on it. Pictures were captured under the microscope at 10x magnification, scale bar = 100 μ m, and the quantitative analysis of the migration assay was performed. (D, E) Transwell invasion assay indicated that the overexpression of miR-194-3p inhibited cell invasion and the rescue of miR-194-3p expression reduced the promoting effect of linc-ROR on it. Pictures were captured under the microscope at 10x magnification, scale bar = 100 µm, and the quantitative analysis of the invasion assay was performed. (F-I) Western blot assays determined the expression level of MECP2 protein in cell lines, pictures of protein bands were captured, and the gray value of them was calculated by Image J. (F, G) linc-ROR upregulated the protein level of MECP2, (H, I) miR-194-3p downregulated the protein level of MECP2, and the rescue of miR-194-3p reduced the upregulating effect of line-ROR on MECP2. 'miR-194-3p mimic/NC mimic': overexpression of miR-194-3p/its negative control in MCF-7 cell line, 'LV-linc-ROR + miR-194-3p mimic/NC mimic': rescue/not rescue the expression of miR-194-3p in linc-ROR-overexpressing MCF-7 cell line, *P < 0.05, **P < 0.01, ***P < 0.001, ****P < 0.0001, error bars represent SEM. figure provided by CiteAb. Source: PMID32335998



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using MECP2 antibody.



Western Blotting

Image 3. linc-ROR promoted cell proliferation, migration, and invasion of breast cancer through linc-ROR/miR-194-3p/MECP2 regulatory axis. (A) CCK8 proliferation assay revealed that the overexpression of miR-194-3p inhibited cell growth and the rescue of miR-194-3p reduced the promoting effect of linc-ROR on cell growth. (B-C) Transwell migration assay indicated that the overexpression of miR-194-3p inhibited the cell migration and the rescue of miR-194-3p expression reduced the promoting effect of linc-ROR on it. Pictures were captured under the microscope at 10x magnification, scale bar = 100 μ m, and the quantitative analysis of the migration assay was performed. (D, E) Transwell invasion assay indicated that the overexpression of miR-194-3p inhibited cell invasion and the rescue of miR-194-3p expression reduced the promoting effect of linc-ROR on it. Pictures were captured under the microscope at 10x magnification, scale bar = 100 µm, and the quantitative analysis of the invasion assay was performed. (F-I) Western blot assays determined the expression level of MECP2 protein in cell lines, pictures of protein bands were captured, and the gray value of them was calculated by Image J. (F, G) linc-ROR upregulated the protein level of MECP2, (H, I) miR-194-3p downregulated the protein level of MECP2, and the rescue of miR-194-3p reduced the upregulating effect of line-ROR on MECP2. 'miR-194-3p mimic/NC mimic': overexpression of miR-194-3p/its negative control in MCF-7 cell line, 'LV-linc-ROR + miR-194-3p mimic/NC mimic': rescue/not rescue the expression of miR-194-3p in linc-ROR-overexpressing MCF-7 cell line, *P < 0.05, **P < 0.01, ***P < 0.001, ****P < 0.0001, error bars represent SEM. figure provided by CiteAb. Source: PMID32335998